

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: P562181

Luminaire Tested: **SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562181
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

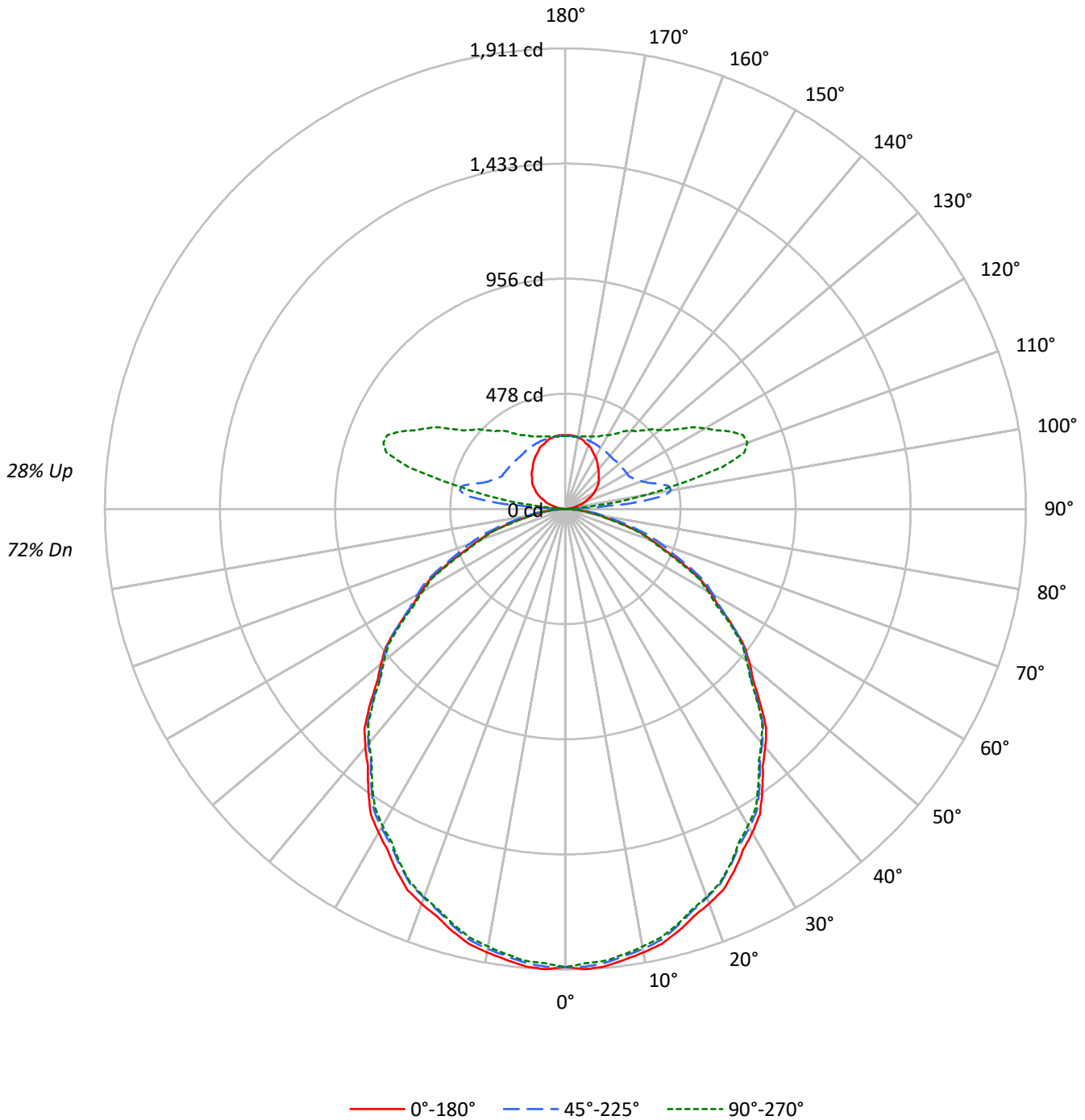
Lumens per Lamp: N/A
Luminaire Lumens: 6727.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.7
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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Luminous Intensity Polar Plot





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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 | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 76 | 76 | 76 | 72 |
| 1 | 103 | 98 | 94 | 91 | 97 | 93 | 90 | 87 | 84 | 81 | 79 | 76 | 74 | 72 | 68 | 66 | 65 | 61 |
| 2 | 94 | 86 | 80 | 75 | 89 | 82 | 76 | 71 | 74 | 69 | 66 | 67 | 63 | 60 | 60 | 57 | 55 | 51 |
| 3 | 86 | 76 | 68 | 62 | 81 | 72 | 65 | 60 | 65 | 60 | 55 | 59 | 55 | 51 | 53 | 50 | 47 | 43 |
| 4 | 78 | 67 | 59 | 53 | 74 | 64 | 57 | 51 | 58 | 52 | 47 | 53 | 48 | 44 | 47 | 44 | 40 | 37 |
| 5 | 72 | 60 | 52 | 45 | 68 | 57 | 50 | 44 | 52 | 46 | 41 | 47 | 42 | 38 | 43 | 39 | 35 | 32 |
| 6 | 67 | 54 | 46 | 40 | 63 | 52 | 44 | 38 | 47 | 41 | 36 | 43 | 37 | 33 | 39 | 34 | 31 | 29 |
| 7 | 62 | 49 | 41 | 35 | 58 | 47 | 39 | 34 | 43 | 36 | 32 | 39 | 34 | 30 | 35 | 31 | 28 | 25 |
| 8 | 57 | 45 | 37 | 31 | 54 | 43 | 35 | 30 | 39 | 33 | 28 | 36 | 30 | 27 | 33 | 28 | 25 | 23 |
| 9 | 53 | 41 | 33 | 28 | 51 | 39 | 32 | 27 | 36 | 30 | 25 | 33 | 28 | 24 | 30 | 26 | 22 | 20 |
| 10 | 50 | 38 | 30 | 25 | 47 | 36 | 29 | 24 | 33 | 27 | 23 | 31 | 25 | 22 | 28 | 24 | 20 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17535 | 17535 | 17535 |
| 5° | 17649 | 17509 | 17432 |
| 10° | 17508 | 17366 | 17273 |
| 15° | 17322 | 17130 | 17066 |
| 20° | 17115 | 16852 | 16819 |
| 25° | 16876 | 16569 | 16518 |
| 30° | 16519 | 16270 | 16162 |
| 35° | 16050 | 15824 | 15730 |
| 40° | 15550 | 15308 | 15246 |
| 45° | 14945 | 14748 | 14683 |
| 50° | 14325 | 14204 | 14108 |
| 55° | 13656 | 13656 | 13441 |
| 60° | 12823 | 13070 | 12607 |
| 65° | 11734 | 12319 | 11442 |
| 70° | 10345 | 11338 | 10073 |
| 75° | 8833 | 10149 | 8595 |
| 80° | 6849 | 8544 | 6939 |
| 85° | 4435 | 6563 | 5854 |



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CATALOG NUMBER: SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 179.0 | 2.7 |
| 10°-20° | 505.3 | 7.5 |
| 20°-30° | 749.5 | 11.1 |
| 30°-40° | 877.0 | 13.0 |
| 40°-50° | 873.1 | 13.0 |
| 50°-60° | 753.9 | 11.2 |
| 60°-70° | 542.7 | 8.1 |
| 70°-80° | 284.6 | 4.2 |
| 80°-90° | 70.6 | 1.0 |
| 90°-100° | 138.8 | 2.1 |
| 100°-110° | 394.8 | 5.9 |
| 110°-120° | 378.2 | 5.6 |
| 120°-130° | 299.4 | 4.5 |
| 130°-140° | 240.3 | 3.6 |
| 140°-150° | 188.1 | 2.8 |
| 150°-160° | 137.6 | 2.0 |
| 160°-170° | 85.3 | 1.3 |
| 170°-180° | 28.9 | 0.4 |
| 0°-30° | 1433.8 | 21.3 |
| 0°-40° | 2310.7 | 34.4 |
| 0°-60° | 3937.8 | 58.5 |
| 0°-90° | 4835.6 | 71.9 |
| 90°-120° | 911.8 | 13.6 |
| 90°-150° | 1639.5 | 24.4 |
| 90°-180° | 1891.0 | 28.1 |
| 0°-180° | 6727.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1901 | 1901 | 1901 | 1901 | 1901 | |
| 5° | 1906 | 1884 | 1890 | 1885 | 1882 | 180 |
| 15° | 1814 | 1791 | 1793 | 1790 | 1787 | 511 |
| 25° | 1658 | 1630 | 1628 | 1618 | 1623 | 762 |
| 35° | 1425 | 1405 | 1405 | 1392 | 1397 | 891 |
| 45° | 1145 | 1136 | 1130 | 1127 | 1125 | 884 |
| 55° | 849 | 847 | 849 | 837 | 836 | 757 |
| 65° | 538 | 554 | 564 | 542 | 524 | 533 |
| 75° | 248 | 271 | 285 | 266 | 241 | 266 |
| 85° | 42 | 55 | 62 | 58 | 55 | 55 |
| 90° | 0 | 0 | 0 | 0 | 0 | 2 |
| 95° | 15 | 60 | 269 | 93 | 57 | 17 |
| 105° | 61 | 93 | 402 | 711 | 676 | 65 |
| 115° | 114 | 138 | 305 | 646 | 759 | 112 |
| 125° | 161 | 178 | 291 | 483 | 578 | 144 |
| 135° | 197 | 213 | 288 | 408 | 461 | 152 |
| 145° | 232 | 244 | 290 | 353 | 385 | 145 |
| 155° | 265 | 271 | 297 | 319 | 332 | 123 |
| 165° | 293 | 294 | 300 | 307 | 311 | 82 |
| 175° | 307 | 305 | 304 | 302 | 300 | 29 |
| 180° | 304 | 304 | 304 | 304 | 304 | |

TEST NUMBER: P562181

CATALOG NUMBER: SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 |
| 2.5° | 1911.3 | 1895.6 | 1900.6 | 1896.4 | 1887.2 |
| 5° | 1905.6 | 1884.3 | 1890.5 | 1885.4 | 1882.2 |
| 7.5° | 1886.2 | 1866.5 | 1871.1 | 1865.7 | 1863.7 |
| 10° | 1868.8 | 1849.1 | 1853.7 | 1846.9 | 1843.7 |
| 12.5° | 1848.7 | 1827.7 | 1832.3 | 1825.5 | 1823.6 |
| 15° | 1813.5 | 1790.6 | 1793.4 | 1790.0 | 1786.7 |
| 17.5° | 1772.7 | 1749.4 | 1749.9 | 1744.5 | 1743.9 |
| 20° | 1743.2 | 1718.6 | 1716.4 | 1709.8 | 1713.0 |
| 22.5° | 1711.0 | 1685.2 | 1682.9 | 1673.6 | 1678.2 |
| 25° | 1657.8 | 1629.9 | 1627.6 | 1617.7 | 1622.6 |
| 27.5° | 1596.2 | 1568.7 | 1568.7 | 1554.8 | 1560.0 |
| 30° | 1550.6 | 1524.4 | 1527.2 | 1510.6 | 1517.1 |
| 32.5° | 1502.4 | 1478.8 | 1480.3 | 1463.7 | 1470.2 |
| 35° | 1425.0 | 1405.4 | 1404.9 | 1391.6 | 1396.6 |
| 37.5° | 1346.0 | 1328.6 | 1325.9 | 1318.2 | 1319.5 |
| 40° | 1291.1 | 1276.3 | 1271.0 | 1265.9 | 1265.9 |
| 42.5° | 1233.5 | 1220.0 | 1214.7 | 1211.0 | 1209.7 |
| 45° | 1145.4 | 1135.6 | 1130.3 | 1126.9 | 1125.3 |
| 47.5° | 1058.3 | 1049.1 | 1044.6 | 1042.2 | 1040.6 |
| 50° | 998.0 | 991.5 | 989.6 | 984.6 | 982.9 |
| 52.5° | 937.7 | 933.8 | 932.0 | 925.6 | 924.0 |
| 55° | 849.0 | 847.3 | 849.0 | 837.2 | 835.6 |
| 57.5° | 756.6 | 759.2 | 764.6 | 748.8 | 744.8 |
| 60° | 694.9 | 701.5 | 708.3 | 689.8 | 683.2 |
| 62.5° | 632.0 | 642.4 | 652.1 | 630.8 | 621.6 |
| 65° | 537.5 | 553.9 | 564.3 | 542.1 | 524.1 |
| 67.5° | 446.4 | 466.7 | 479.2 | 455.3 | 435.0 |
| 70° | 383.5 | 406.4 | 420.3 | 396.3 | 373.4 |
| 72.5° | 328.5 | 354.1 | 365.4 | 342.8 | 319.8 |
| 75° | 247.8 | 270.8 | 284.7 | 265.7 | 241.1 |
| 77.5° | 175.8 | 197.4 | 209.0 | 192.4 | 172.1 |
| 80° | 128.9 | 151.9 | 160.8 | 147.0 | 130.6 |
| 82.5° | 91.4 | 110.4 | 116.5 | 108.3 | 97.1 |
| 85° | 41.9 | 55.0 | 62.0 | 58.5 | 55.3 |
| 87.5° | 10.7 | 19.9 | 25.5 | 25.5 | 26.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 4.6 | 24.6 | 57.0 | 16.6 | 12.5 |
| 95° | 15.1 | 59.8 | 268.6 | 93.0 | 57.3 |
| 97.5° | 27.7 | 70.0 | 413.7 | 296.0 | 202.8 |
| 100° | 36.5 | 76.1 | 445.1 | 450.9 | 347.3 |
| 102.5° | 46.2 | 82.6 | 438.2 | 577.2 | 486.7 |
| 105° | 61.4 | 93.1 | 402.3 | 710.6 | 675.5 |
| 107.5° | 76.8 | 105.2 | 360.4 | 748.3 | 779.5 |
| 110° | 87.4 | 114.0 | 336.3 | 733.9 | 804.0 |

TEST NUMBER: P562181

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 97.6 | 122.8 | 320.1 | 699.8 | 799.9 |
| 115° | 114.0 | 137.8 | 305.1 | 646.3 | 758.9 |
| 117.5° | 128.5 | 150.8 | 296.1 | 587.7 | 707.0 |
| 120° | 140.1 | 158.8 | 295.2 | 554.3 | 668.6 |
| 122.5° | 149.3 | 168.0 | 292.9 | 524.9 | 631.1 |
| 125° | 160.9 | 178.5 | 291.2 | 483.2 | 577.7 |
| 127.5° | 173.5 | 190.0 | 290.2 | 458.3 | 536.1 |
| 130° | 180.0 | 196.4 | 288.9 | 440.9 | 508.8 |
| 132.5° | 187.0 | 202.9 | 288.9 | 427.3 | 489.8 |
| 135° | 196.8 | 213.2 | 287.7 | 408.2 | 461.4 |
| 137.5° | 206.1 | 222.0 | 287.6 | 391.9 | 437.9 |
| 140° | 213.0 | 229.4 | 287.1 | 378.4 | 422.6 |
| 142.5° | 220.9 | 234.6 | 288.5 | 367.7 | 407.3 |
| 145° | 232.1 | 244.0 | 290.0 | 353.2 | 384.9 |
| 147.5° | 241.7 | 253.3 | 292.6 | 338.7 | 366.1 |
| 150° | 250.1 | 258.0 | 293.5 | 333.9 | 353.1 |
| 152.5° | 256.6 | 264.9 | 294.4 | 327.3 | 345.2 |
| 155° | 265.1 | 271.3 | 297.0 | 319.3 | 332.3 |
| 157.5° | 275.8 | 279.5 | 297.5 | 315.6 | 324.9 |
| 160° | 281.3 | 284.2 | 299.9 | 312.8 | 320.7 |
| 162.5° | 284.6 | 287.9 | 300.3 | 310.4 | 316.5 |
| 165° | 292.9 | 294.0 | 300.4 | 306.9 | 311.4 |
| 167.5° | 298.6 | 297.6 | 303.1 | 306.0 | 307.8 |
| 170° | 300.4 | 299.9 | 302.2 | 302.8 | 305.1 |
| 172.5° | 304.6 | 302.7 | 303.6 | 301.9 | 303.7 |
| 175° | 306.8 | 305.1 | 303.9 | 302.1 | 299.9 |
| 177.5° | 307.7 | 305.0 | 303.6 | 301.7 | 302.2 |
| 180° | 304.5 | 304.5 | 304.5 | 304.5 | 304.5 |

(END OF REPORT)