

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: P563193

Luminaire Tested: **SQ4-PP3-025U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563193
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-050D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7601.2 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

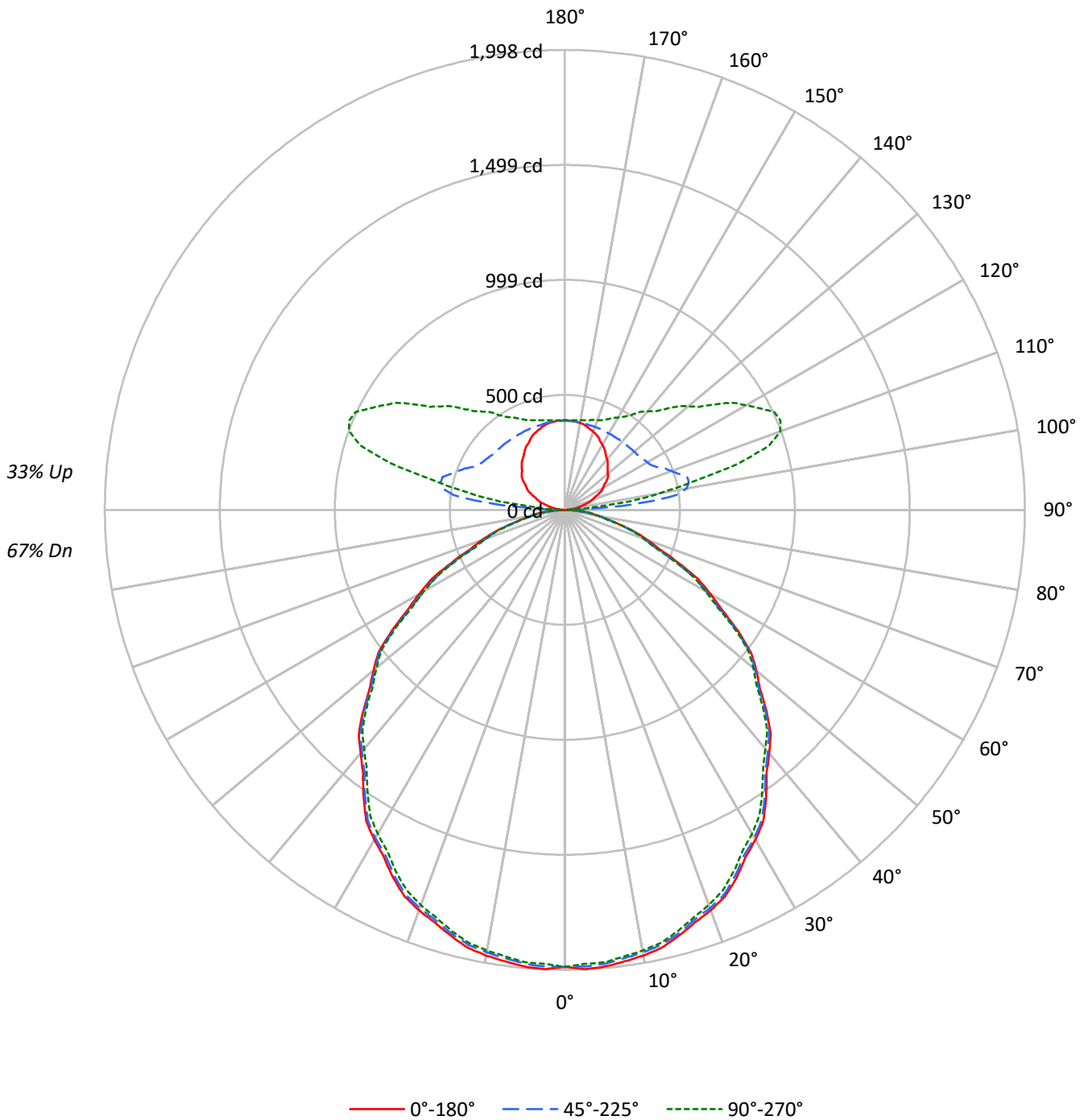
Input Watts (W): 68.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 67 | | | | |
| 1 | 102 | 98 | 94 | 90 | 96 | 92 | 89 | 86 | 82 | 79 | 77 | 72 | 71 | 69 | 64 | 62 | 61 | 57 | | | | |
| 2 | 93 | 85 | 79 | 74 | 87 | 81 | 75 | 71 | 72 | 68 | 64 | 64 | 61 | 58 | 56 | 54 | 52 | 48 | | | | |
| 3 | 85 | 75 | 68 | 62 | 80 | 71 | 65 | 59 | 64 | 58 | 54 | 57 | 53 | 49 | 50 | 47 | 44 | 41 | | | | |
| 4 | 78 | 67 | 59 | 53 | 73 | 63 | 56 | 51 | 57 | 51 | 46 | 51 | 46 | 42 | 45 | 41 | 38 | 35 | | | | |
| 5 | 72 | 60 | 51 | 45 | 67 | 57 | 49 | 44 | 51 | 45 | 40 | 46 | 41 | 37 | 41 | 37 | 33 | 31 | | | | |
| 6 | 66 | 54 | 45 | 39 | 62 | 51 | 43 | 38 | 46 | 40 | 35 | 41 | 36 | 32 | 37 | 33 | 30 | 27 | | | | |
| 7 | 61 | 49 | 40 | 35 | 57 | 46 | 39 | 34 | 42 | 36 | 31 | 38 | 32 | 29 | 34 | 29 | 26 | 24 | | | | |
| 8 | 57 | 44 | 36 | 31 | 53 | 42 | 35 | 30 | 38 | 32 | 28 | 34 | 29 | 26 | 31 | 27 | 24 | 21 | | | | |
| 9 | 53 | 40 | 33 | 28 | 50 | 39 | 32 | 27 | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 24 | 21 | 19 | | | | |
| 10 | 50 | 37 | 30 | 25 | 47 | 36 | 29 | 24 | 32 | 27 | 23 | 29 | 24 | 21 | 26 | 22 | 19 | 17 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6106 | 6106 | 6106 |
| 5° | 6151 | 6113 | 6091 |
| 10° | 6140 | 6097 | 6070 |
| 15° | 6099 | 6066 | 6033 |
| 20° | 6059 | 6025 | 5979 |
| 25° | 5987 | 5946 | 5887 |
| 30° | 5876 | 5845 | 5771 |
| 35° | 5722 | 5683 | 5611 |
| 40° | 5539 | 5504 | 5441 |
| 45° | 5388 | 5350 | 5297 |
| 50° | 5195 | 5161 | 5111 |
| 55° | 4926 | 4860 | 4823 |
| 60° | 4485 | 4356 | 4334 |
| 65° | 3951 | 3786 | 3773 |
| 70° | 3411 | 3270 | 3270 |
| 75° | 2936 | 2895 | 2853 |
| 80° | 2589 | 2619 | 2557 |
| 85° | 2025 | 2209 | 2209 |



TEST NUMBER: P563193

CATALOG NUMBER: SQ4-PP3-025U-050D-935-1D-UNV-STD-W-12

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 187.7 | 2.5 |
| 10°-20° | 536.0 | 7.1 |
| 20°-30° | 802.9 | 10.6 |
| 30°-40° | 941.8 | 12.4 |
| 40°-50° | 944.7 | 12.4 |
| 50°-60° | 805.9 | 10.6 |
| 60°-70° | 525.6 | 6.9 |
| 70°-80° | 263.7 | 3.5 |
| 80°-90° | 75.1 | 1.0 |
| 90°-100° | 189.3 | 2.5 |
| 100°-110° | 497.7 | 6.5 |
| 110°-120° | 516.1 | 6.8 |
| 120°-130° | 414.0 | 5.4 |
| 130°-140° | 324.8 | 4.3 |
| 140°-150° | 249.3 | 3.3 |
| 150°-160° | 179.6 | 2.4 |
| 160°-170° | 109.9 | 1.4 |
| 170°-180° | 37.1 | 0.5 |
| 0°-30° | 1526.7 | 20.1 |
| 0°-40° | 2468.4 | 32.5 |
| 0°-60° | 4219.1 | 55.5 |
| 0°-90° | 5083.4 | 66.9 |
| 90°-120° | 1203.2 | 15.8 |
| 90°-150° | 2191.3 | 28.8 |
| 90°-180° | 2518.0 | 33.1 |
| 0°-180° | 7601.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1985 | 1985 | 1985 | 1985 | 1985 | |
| 5° | 1992 | 1974 | 1980 | 1973 | 1973 | 189 |
| 15° | 1916 | 1897 | 1905 | 1898 | 1895 | 540 |
| 25° | 1764 | 1744 | 1752 | 1736 | 1735 | 811 |
| 35° | 1524 | 1509 | 1514 | 1496 | 1495 | 952 |
| 45° | 1239 | 1230 | 1230 | 1218 | 1218 | 954 |
| 55° | 919 | 915 | 906 | 901 | 900 | 816 |
| 65° | 543 | 533 | 520 | 517 | 518 | 542 |
| 75° | 247 | 247 | 244 | 242 | 240 | 268 |
| 85° | 57 | 62 | 63 | 63 | 63 | 68 |
| 90° | 2 | 7 | 20 | 10 | 10 | 4 |
| 95° | 25 | 98 | 326 | 168 | 114 | 28 |
| 105° | 90 | 136 | 550 | 835 | 779 | 95 |
| 115° | 159 | 194 | 441 | 879 | 1004 | 157 |
| 125° | 222 | 248 | 401 | 678 | 799 | 197 |
| 135° | 264 | 291 | 388 | 547 | 620 | 204 |
| 145° | 306 | 326 | 384 | 466 | 503 | 192 |
| 155° | 346 | 356 | 384 | 421 | 433 | 159 |
| 165° | 374 | 378 | 384 | 398 | 403 | 105 |
| 175° | 388 | 388 | 386 | 391 | 391 | 37 |
| 180° | 388 | 388 | 388 | 388 | 388 | |

TEST NUMBER: P563193

CATALOG NUMBER: SQ4-PP3-025U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1985.3 | 1985.3 | 1985.3 | 1985.3 | 1985.3 |
| 2.5° | 1997.8 | 1981.5 | 1985.3 | 1982.3 | 1974.2 |
| 5° | 1992.3 | 1973.6 | 1980.1 | 1973.1 | 1973.1 |
| 7.5° | 1978.7 | 1958.3 | 1964.8 | 1957.8 | 1957.5 |
| 10° | 1966.2 | 1945.8 | 1952.3 | 1945.3 | 1943.6 |
| 12.5° | 1948.1 | 1927.7 | 1935.6 | 1927.2 | 1926.9 |
| 15° | 1915.7 | 1897.0 | 1905.3 | 1898.2 | 1894.8 |
| 17.5° | 1879.2 | 1858.8 | 1868.7 | 1859.0 | 1857.6 |
| 20° | 1851.3 | 1830.9 | 1840.9 | 1827.0 | 1827.0 |
| 22.5° | 1817.9 | 1797.5 | 1808.9 | 1790.8 | 1790.8 |
| 25° | 1764.3 | 1743.9 | 1752.2 | 1736.5 | 1734.8 |
| 27.5° | 1700.7 | 1680.6 | 1689.2 | 1671.4 | 1671.1 |
| 30° | 1654.7 | 1636.0 | 1646.0 | 1626.8 | 1625.1 |
| 32.5° | 1604.6 | 1587.3 | 1594.5 | 1575.3 | 1573.6 |
| 35° | 1524.2 | 1508.9 | 1513.8 | 1496.3 | 1494.6 |
| 37.5° | 1439.7 | 1424.0 | 1429.6 | 1414.6 | 1413.9 |
| 40° | 1379.8 | 1369.6 | 1371.1 | 1358.8 | 1355.4 |
| 42.5° | 1324.1 | 1312.6 | 1314.0 | 1301.8 | 1301.2 |
| 45° | 1238.9 | 1230.4 | 1230.2 | 1218.0 | 1218.0 |
| 47.5° | 1148.4 | 1141.9 | 1140.0 | 1129.9 | 1129.6 |
| 50° | 1085.7 | 1080.6 | 1078.8 | 1070.0 | 1068.3 |
| 52.5° | 1020.3 | 1017.9 | 1012.0 | 1004.7 | 1004.3 |
| 55° | 918.7 | 915.3 | 906.5 | 901.3 | 899.6 |
| 57.5° | 808.4 | 801.6 | 791.7 | 784.1 | 785.4 |
| 60° | 729.1 | 722.2 | 708.2 | 704.7 | 704.7 |
| 62.5° | 652.5 | 644.3 | 630.2 | 625.4 | 628.1 |
| 65° | 542.9 | 532.7 | 520.3 | 516.8 | 518.5 |
| 67.5° | 443.3 | 434.2 | 420.7 | 420.7 | 419.3 |
| 70° | 379.3 | 374.2 | 363.7 | 363.7 | 363.7 |
| 72.5° | 322.2 | 319.9 | 312.2 | 312.1 | 310.8 |
| 75° | 247.1 | 247.1 | 243.6 | 241.8 | 240.1 |
| 77.5° | 185.1 | 185.8 | 184.1 | 182.3 | 179.2 |
| 80° | 146.2 | 149.6 | 147.9 | 146.1 | 144.4 |
| 82.5° | 110.0 | 113.4 | 113.1 | 110.0 | 109.6 |
| 85° | 57.4 | 62.5 | 62.6 | 62.6 | 62.6 |
| 87.5° | 15.8 | 22.2 | 26.3 | 24.3 | 25.7 |
| 90° | 2.5 | 7.4 | 19.9 | 10.0 | 10.0 |
| 92.5° | 10.5 | 50.4 | 111.6 | 49.4 | 31.9 |
| 95° | 24.9 | 97.9 | 326.2 | 168.1 | 114.5 |
| 97.5° | 43.3 | 107.6 | 488.1 | 388.1 | 285.9 |
| 100° | 57.3 | 115.7 | 537.9 | 545.1 | 423.3 |
| 102.5° | 69.2 | 123.8 | 551.8 | 678.9 | 574.7 |
| 105° | 89.6 | 135.9 | 550.3 | 835.4 | 779.4 |
| 107.5° | 110.6 | 153.4 | 518.9 | 916.7 | 930.3 |
| 110° | 124.5 | 163.5 | 493.0 | 937.6 | 996.1 |



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CATALOG NUMBER: SQ4-PP3-025U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|--------|
| 112.5° | 138.5 | 175.5 | 469.1 | 924.4 | 1014.0 |
| 115° | 159.4 | 193.5 | 440.8 | 879.3 | 1003.5 |
| 117.5° | 179.8 | 211.0 | 421.3 | 816.9 | 954.7 |
| 120° | 191.7 | 221.0 | 413.4 | 775.0 | 908.9 |
| 122.5° | 203.7 | 232.9 | 407.4 | 733.1 | 865.1 |
| 125° | 221.6 | 248.4 | 400.9 | 677.6 | 799.3 |
| 127.5° | 236.1 | 263.3 | 395.4 | 632.8 | 735.6 |
| 130° | 244.0 | 273.2 | 393.4 | 604.8 | 699.7 |
| 132.5° | 252.0 | 281.2 | 391.4 | 580.6 | 665.9 |
| 135° | 264.0 | 290.7 | 388.5 | 547.0 | 620.0 |
| 137.5° | 276.4 | 302.7 | 388.0 | 521.8 | 581.7 |
| 140° | 286.4 | 310.7 | 386.0 | 501.8 | 557.8 |
| 142.5° | 294.3 | 316.7 | 386.0 | 487.7 | 535.9 |
| 145° | 306.3 | 325.8 | 383.5 | 466.5 | 503.0 |
| 147.5° | 318.2 | 337.2 | 383.5 | 448.9 | 479.1 |
| 150° | 326.2 | 343.3 | 383.5 | 438.8 | 463.2 |
| 152.5° | 334.2 | 347.3 | 383.5 | 430.7 | 449.2 |
| 155° | 346.1 | 355.9 | 383.5 | 421.1 | 433.3 |
| 157.5° | 355.1 | 364.3 | 383.5 | 412.6 | 421.3 |
| 160° | 361.1 | 368.4 | 383.5 | 408.5 | 413.4 |
| 162.5° | 367.0 | 372.4 | 383.5 | 404.5 | 409.4 |
| 165° | 373.5 | 378.4 | 383.5 | 398.5 | 403.4 |
| 167.5° | 379.5 | 381.9 | 386.0 | 396.0 | 397.9 |
| 170° | 383.5 | 385.9 | 386.0 | 395.9 | 395.9 |
| 172.5° | 385.5 | 386.0 | 386.0 | 393.9 | 391.9 |
| 175° | 388.5 | 388.5 | 386.0 | 390.9 | 390.9 |
| 177.5° | 388.5 | 388.5 | 386.5 | 390.4 | 388.5 |
| 180° | 388.5 | 388.5 | 388.5 | 388.5 | 388.5 |

(END OF REPORT)