

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: P561820

Luminaire Tested: **SQ4-PR1-025U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561820
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

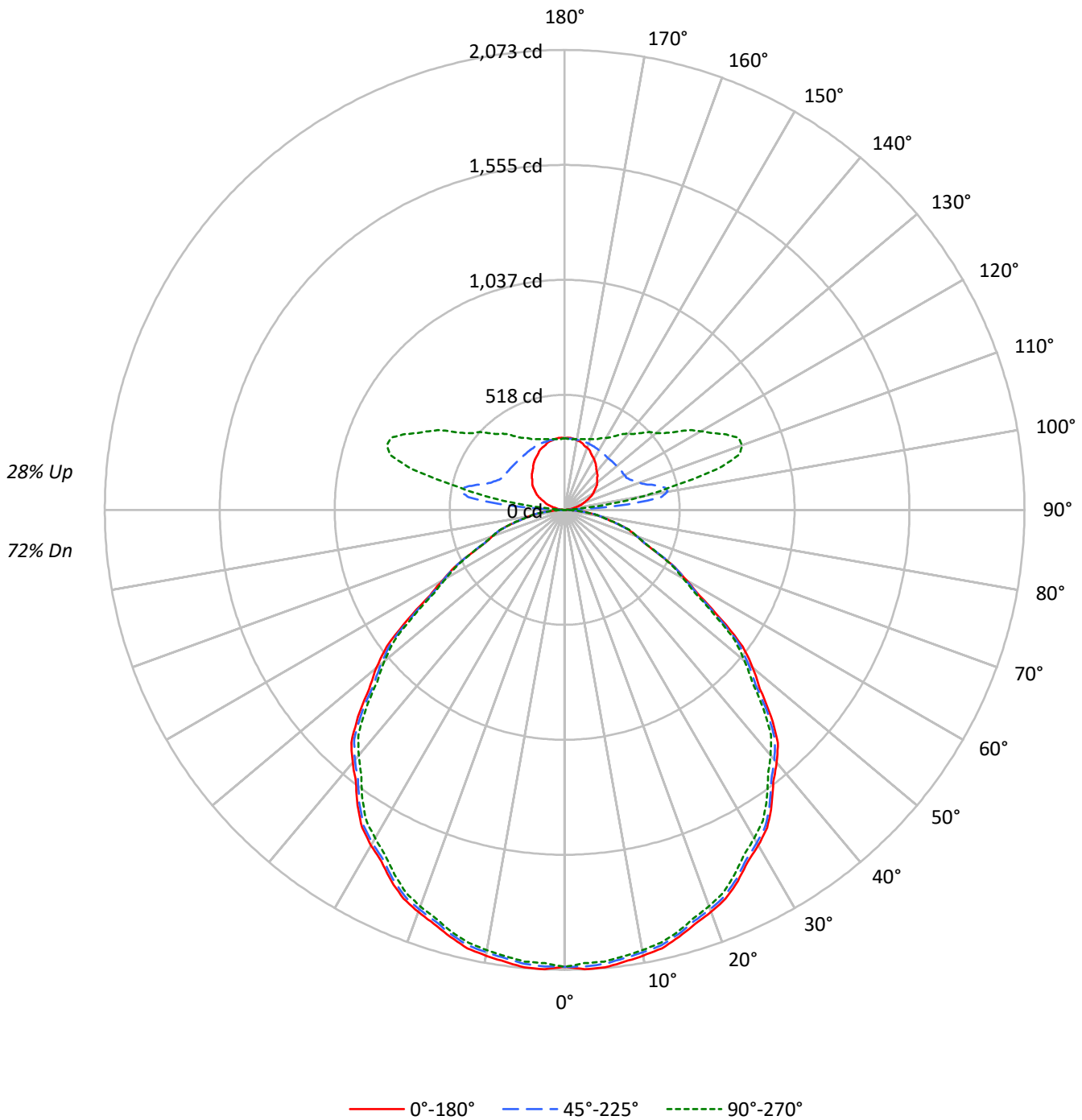
Lumens per Lamp: N/A
Luminaire Lumens: 7153.5 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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





TEST NUMBER: P561820

CATALOG NUMBER: SQ4-PR1-025U-125D-92765-1D-UNV-STD-W-4 (4500K)

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 | 112 | 112 | 112 | 112 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 86 | 86 | 86 | 76 | 76 | 76 | 72 | 72 | 72 | 72 | |
| 1 | 103 | 99 | 95 | 91 | 98 | 94 | 90 | 87 | 85 | 82 | 80 | 76 | 74 | 72 | 68 | 67 | 65 | 61 | 61 | 61 | 61 | |
| 2 | 94 | 87 | 81 | 75 | 89 | 83 | 77 | 72 | 75 | 70 | 67 | 67 | 64 | 61 | 60 | 58 | 56 | 52 | 52 | 52 | 52 | |
| 3 | 86 | 77 | 69 | 63 | 82 | 73 | 66 | 61 | 66 | 61 | 56 | 60 | 56 | 52 | 54 | 51 | 48 | 45 | 45 | 45 | 45 | |
| 4 | 79 | 68 | 60 | 54 | 75 | 65 | 58 | 52 | 59 | 53 | 49 | 54 | 49 | 45 | 48 | 45 | 42 | 39 | 39 | 39 | 39 | |
| 5 | 73 | 61 | 53 | 47 | 69 | 58 | 51 | 45 | 53 | 47 | 42 | 48 | 43 | 39 | 44 | 40 | 36 | 34 | 34 | 34 | 34 | |
| 6 | 67 | 55 | 47 | 41 | 64 | 53 | 45 | 40 | 48 | 42 | 37 | 44 | 39 | 35 | 40 | 36 | 32 | 30 | 30 | 30 | 30 | |
| 7 | 62 | 50 | 42 | 36 | 59 | 48 | 40 | 35 | 44 | 37 | 33 | 40 | 35 | 31 | 36 | 32 | 29 | 26 | 26 | 26 | 26 | |
| 8 | 58 | 45 | 38 | 32 | 55 | 44 | 36 | 31 | 40 | 34 | 29 | 37 | 31 | 28 | 34 | 29 | 26 | 24 | 24 | 24 | 24 | |
| 9 | 54 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 37 | 31 | 26 | 34 | 29 | 25 | 31 | 27 | 23 | 21 | 21 | 21 | 21 | |
| 10 | 51 | 38 | 31 | 26 | 48 | 37 | 30 | 25 | 34 | 28 | 24 | 31 | 26 | 23 | 29 | 24 | 21 | 19 | 19 | 19 | 19 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 19005 | 19005 | 19005 |
| 5° | 19176 | 19029 | 18929 |
| 10° | 19116 | 18983 | 18882 |
| 15° | 19032 | 18913 | 18811 |
| 20° | 18936 | 18814 | 18674 |
| 25° | 18802 | 18676 | 18459 |
| 30° | 18600 | 18467 | 18203 |
| 35° | 18325 | 18165 | 17905 |
| 40° | 17907 | 17714 | 17394 |
| 45° | 17177 | 16876 | 16529 |
| 50° | 15891 | 15509 | 15203 |
| 55° | 13870 | 13557 | 13270 |
| 60° | 11688 | 11590 | 11361 |
| 65° | 10110 | 10149 | 10071 |
| 70° | 9285 | 9334 | 9334 |
| 75° | 8919 | 8919 | 8980 |
| 80° | 8389 | 8485 | 8389 |
| 85° | 6764 | 7516 | 7516 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 194.8 | 2.7 |
| 10°-20° | 557.3 | 7.8 |
| 20°-30° | 840.6 | 11.8 |
| 30°-40° | 1001.6 | 14.0 |
| 40°-50° | 987.5 | 13.8 |
| 50°-60° | 754.7 | 10.5 |
| 60°-70° | 467.0 | 6.5 |
| 70°-80° | 265.3 | 3.7 |
| 80°-90° | 80.7 | 1.1 |
| 90°-100° | 147.0 | 2.1 |
| 100°-110° | 418.3 | 5.8 |
| 110°-120° | 400.8 | 5.6 |
| 120°-130° | 317.2 | 4.4 |
| 130°-140° | 254.6 | 3.6 |
| 140°-150° | 199.3 | 2.8 |
| 150°-160° | 145.8 | 2.0 |
| 160°-170° | 90.3 | 1.3 |
| 170°-180° | 30.7 | 0.4 |
| 0°-30° | 1592.8 | 22.3 |
| 0°-40° | 2594.4 | 36.3 |
| 0°-60° | 4336.5 | 60.6 |
| 0°-90° | 5149.5 | 72.0 |
| 90°-120° | 966.1 | 13.5 |
| 90°-150° | 1737.2 | 24.3 |
| 90°-180° | 2004.0 | 28.0 |
| 0°-180° | 7153.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2060 | 2060 | 2060 | 2060 | 2060 | |
| 5° | 2070 | 2048 | 2055 | 2047 | 2044 | 196 |
| 15° | 1992 | 1972 | 1980 | 1973 | 1969 | 562 |
| 25° | 1847 | 1824 | 1835 | 1815 | 1813 | 850 |
| 35° | 1627 | 1608 | 1613 | 1592 | 1590 | 1015 |
| 45° | 1316 | 1299 | 1293 | 1270 | 1267 | 1009 |
| 55° | 862 | 848 | 843 | 828 | 825 | 773 |
| 65° | 463 | 460 | 465 | 461 | 461 | 469 |
| 75° | 250 | 250 | 250 | 252 | 252 | 264 |
| 85° | 64 | 67 | 71 | 71 | 71 | 74 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 16 | 63 | 285 | 98 | 61 | 18 |
| 105° | 65 | 99 | 426 | 753 | 716 | 69 |
| 115° | 121 | 146 | 323 | 685 | 804 | 119 |
| 125° | 170 | 189 | 308 | 512 | 612 | 153 |
| 135° | 208 | 226 | 305 | 432 | 489 | 161 |
| 145° | 246 | 258 | 307 | 374 | 408 | 154 |
| 155° | 281 | 288 | 315 | 338 | 352 | 130 |
| 165° | 310 | 312 | 318 | 325 | 330 | 87 |
| 175° | 325 | 323 | 322 | 320 | 318 | 31 |
| 180° | 323 | 323 | 323 | 323 | 323 | |



TEST NUMBER: P561820

CATALOG NUMBER: SQ4-PR1-025U-125D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2059.9 | 2059.9 | 2059.9 | 2059.9 | 2059.9 |
| 2.5° | 2072.7 | 2054.6 | 2059.9 | 2055.4 | 2045.7 |
| 5° | 2070.5 | 2048.0 | 2054.6 | 2047.4 | 2043.9 |
| 7.5° | 2054.6 | 2032.4 | 2039.0 | 2031.8 | 2029.7 |
| 10° | 2040.4 | 2019.6 | 2026.2 | 2019.0 | 2015.5 |
| 12.5° | 2024.8 | 2002.6 | 2010.6 | 2002.0 | 1998.5 |
| 15° | 1992.5 | 1971.7 | 1980.1 | 1972.9 | 1969.4 |
| 17.5° | 1957.0 | 1934.8 | 1943.1 | 1934.9 | 1930.4 |
| 20° | 1928.6 | 1907.8 | 1916.2 | 1903.7 | 1902.0 |
| 22.5° | 1897.4 | 1876.6 | 1885.0 | 1868.3 | 1867.9 |
| 25° | 1847.0 | 1824.4 | 1834.6 | 1815.0 | 1813.3 |
| 27.5° | 1787.0 | 1766.2 | 1774.6 | 1754.7 | 1752.6 |
| 30° | 1745.9 | 1725.0 | 1733.4 | 1712.1 | 1708.6 |
| 32.5° | 1699.0 | 1679.6 | 1686.6 | 1665.3 | 1663.2 |
| 35° | 1627.0 | 1607.9 | 1612.8 | 1591.5 | 1589.7 |
| 37.5° | 1545.0 | 1527.7 | 1530.5 | 1507.0 | 1505.3 |
| 40° | 1486.8 | 1469.5 | 1470.8 | 1446.0 | 1444.2 |
| 42.5° | 1422.9 | 1405.6 | 1404.1 | 1379.3 | 1377.5 |
| 45° | 1316.5 | 1299.1 | 1293.4 | 1270.3 | 1266.8 |
| 47.5° | 1195.1 | 1177.8 | 1167.1 | 1148.2 | 1145.8 |
| 50° | 1107.1 | 1089.8 | 1080.5 | 1064.4 | 1059.2 |
| 52.5° | 1012.0 | 994.7 | 986.8 | 972.2 | 967.0 |
| 55° | 862.3 | 848.4 | 842.8 | 828.5 | 825.0 |
| 57.5° | 720.0 | 710.6 | 709.0 | 695.1 | 693.7 |
| 60° | 633.4 | 628.2 | 628.1 | 615.7 | 615.7 |
| 62.5° | 559.6 | 555.8 | 558.5 | 550.3 | 548.9 |
| 65° | 463.1 | 459.6 | 464.9 | 461.3 | 461.3 |
| 67.5° | 386.8 | 386.8 | 390.0 | 388.6 | 388.6 |
| 70° | 344.2 | 344.2 | 346.0 | 346.0 | 346.0 |
| 72.5° | 305.9 | 304.5 | 309.1 | 309.0 | 307.7 |
| 75° | 250.2 | 250.2 | 250.2 | 251.9 | 251.9 |
| 77.5° | 194.8 | 195.2 | 196.6 | 196.2 | 194.8 |
| 80° | 157.9 | 159.6 | 159.7 | 157.9 | 157.9 |
| 82.5° | 121.0 | 122.7 | 122.8 | 122.4 | 121.0 |
| 85° | 63.9 | 67.3 | 71.0 | 71.0 | 71.0 |
| 87.5° | 18.5 | 24.0 | 28.4 | 28.4 | 27.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 4.9 | 26.0 | 60.4 | 17.6 | 13.2 |
| 95° | 15.9 | 63.3 | 284.6 | 98.5 | 60.7 |
| 97.5° | 29.3 | 74.2 | 438.3 | 313.6 | 214.9 |
| 100° | 38.6 | 80.6 | 471.7 | 477.7 | 368.0 |
| 102.5° | 48.9 | 87.6 | 464.3 | 611.5 | 515.7 |
| 105° | 65.0 | 98.6 | 426.3 | 752.9 | 715.8 |
| 107.5° | 81.3 | 111.4 | 381.9 | 792.8 | 825.9 |
| 110° | 92.6 | 120.8 | 356.3 | 777.6 | 851.9 |

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CATALOG NUMBER: SQ4-PR1-025U-125D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 103.4 | 130.2 | 339.2 | 741.5 | 847.5 |
| 115° | 120.8 | 146.0 | 323.2 | 684.7 | 804.1 |
| 117.5° | 136.2 | 159.8 | 313.8 | 622.7 | 749.1 |
| 120° | 148.4 | 168.2 | 312.8 | 587.3 | 708.4 |
| 122.5° | 158.2 | 178.0 | 310.3 | 556.2 | 668.7 |
| 125° | 170.5 | 189.1 | 308.5 | 512.0 | 612.1 |
| 127.5° | 183.9 | 201.3 | 307.5 | 485.6 | 568.1 |
| 130° | 190.7 | 208.1 | 306.1 | 467.2 | 539.1 |
| 132.5° | 198.1 | 215.0 | 306.1 | 452.8 | 519.0 |
| 135° | 208.5 | 225.9 | 304.8 | 432.5 | 488.8 |
| 137.5° | 218.3 | 235.3 | 304.7 | 415.2 | 463.9 |
| 140° | 225.7 | 243.1 | 304.2 | 401.0 | 447.7 |
| 142.5° | 234.0 | 248.6 | 305.7 | 389.6 | 431.5 |
| 145° | 245.9 | 258.5 | 307.3 | 374.3 | 407.9 |
| 147.5° | 256.1 | 268.4 | 310.0 | 358.8 | 387.9 |
| 150° | 265.0 | 273.4 | 311.0 | 353.7 | 374.1 |
| 152.5° | 271.8 | 280.7 | 311.9 | 346.8 | 365.8 |
| 155° | 280.9 | 287.5 | 314.6 | 338.3 | 352.1 |
| 157.5° | 292.2 | 296.2 | 315.3 | 334.4 | 344.2 |
| 160° | 298.1 | 301.1 | 317.7 | 331.4 | 339.8 |
| 162.5° | 301.5 | 305.0 | 318.2 | 328.9 | 335.4 |
| 165° | 310.3 | 311.5 | 318.3 | 325.2 | 330.0 |
| 167.5° | 316.4 | 315.3 | 321.1 | 324.3 | 326.2 |
| 170° | 318.3 | 317.7 | 320.2 | 320.8 | 323.2 |
| 172.5° | 322.7 | 320.7 | 321.6 | 319.8 | 321.8 |
| 175° | 325.1 | 323.3 | 322.0 | 320.1 | 317.7 |
| 177.5° | 326.0 | 323.2 | 321.6 | 319.7 | 320.2 |
| 180° | 322.6 | 322.6 | 322.6 | 322.6 | 322.6 |

(END OF REPORT)