

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: P562187

Luminaire Tested: **SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562187
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

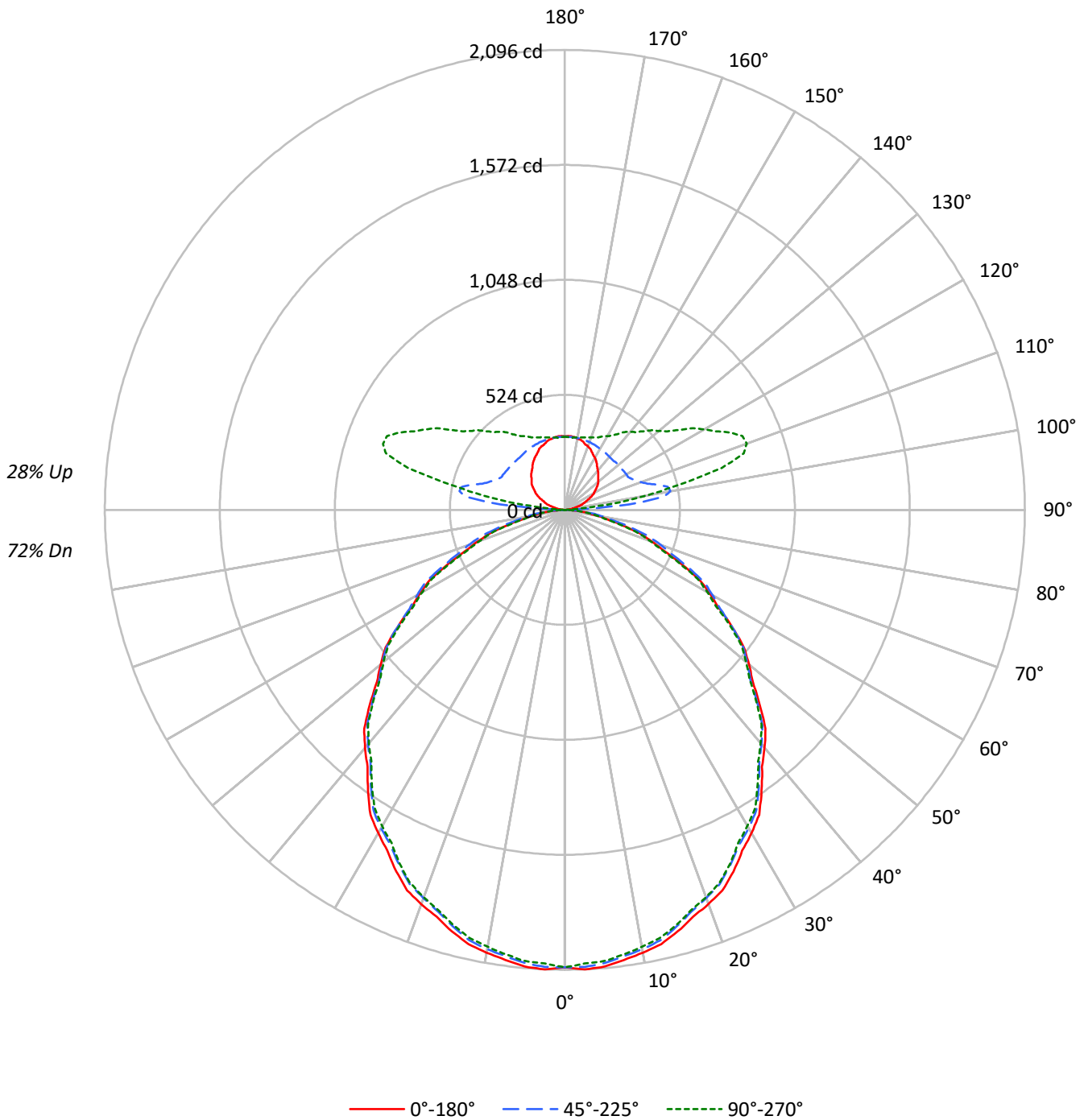
Lumens per Lamp: N/A
Luminaire Lumens: 7378.4 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.3
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: P562187

CATALOG NUMBER: SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

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° | 19233 | 19233 | 19233 |
| 5° | 19357 | 19205 | 19119 |
| 10° | 19203 | 19048 | 18945 |
| 15° | 18999 | 18789 | 18718 |
| 20° | 18773 | 18484 | 18448 |
| 25° | 18510 | 18174 | 18117 |
| 30° | 18119 | 17846 | 17727 |
| 35° | 17604 | 17356 | 17253 |
| 40° | 17055 | 16789 | 16723 |
| 45° | 16392 | 16177 | 16104 |
| 50° | 15713 | 15581 | 15474 |
| 55° | 14979 | 14979 | 14742 |
| 60° | 14064 | 14336 | 13828 |
| 65° | 12872 | 13513 | 12551 |
| 70° | 11346 | 12436 | 11049 |
| 75° | 9689 | 11129 | 9429 |
| 80° | 7513 | 9367 | 7614 |
| 85° | 4859 | 7198 | 6415 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 196.3 | 2.7 |
| 10°-20° | 554.2 | 7.5 |
| 20°-30° | 822.1 | 11.1 |
| 30°-40° | 961.9 | 13.0 |
| 40°-50° | 957.6 | 13.0 |
| 50°-60° | 826.9 | 11.2 |
| 60°-70° | 595.2 | 8.1 |
| 70°-80° | 312.2 | 4.2 |
| 80°-90° | 77.4 | 1.0 |
| 90°-100° | 152.2 | 2.1 |
| 100°-110° | 433.0 | 5.9 |
| 110°-120° | 414.9 | 5.6 |
| 120°-130° | 328.4 | 4.5 |
| 130°-140° | 263.6 | 3.6 |
| 140°-150° | 206.3 | 2.8 |
| 150°-160° | 151.0 | 2.0 |
| 160°-170° | 93.5 | 1.3 |
| 170°-180° | 31.7 | 0.4 |
| 0°-30° | 1572.6 | 21.3 |
| 0°-40° | 2534.5 | 34.4 |
| 0°-60° | 4319.1 | 58.5 |
| 0°-90° | 5303.9 | 71.9 |
| 90°-120° | 1000.1 | 13.6 |
| 90°-150° | 1798.3 | 24.4 |
| 90°-180° | 2075.0 | 28.1 |
| 0°-180° | 7378.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2085 | 2085 | 2085 | 2085 | 2085 | |
| 5° | 2090 | 2067 | 2074 | 2068 | 2064 | 198 |
| 15° | 1989 | 1964 | 1967 | 1963 | 1960 | 561 |
| 25° | 1818 | 1788 | 1785 | 1774 | 1780 | 836 |
| 35° | 1563 | 1542 | 1541 | 1526 | 1532 | 977 |
| 45° | 1256 | 1246 | 1240 | 1236 | 1234 | 969 |
| 55° | 931 | 929 | 931 | 918 | 916 | 831 |
| 65° | 590 | 608 | 619 | 595 | 575 | 584 |
| 75° | 272 | 297 | 312 | 291 | 264 | 291 |
| 85° | 46 | 60 | 68 | 64 | 61 | 61 |
| 90° | 0 | 0 | 0 | 0 | 0 | 2 |
| 95° | 16 | 66 | 295 | 102 | 63 | 19 |
| 105° | 67 | 102 | 441 | 779 | 741 | 71 |
| 115° | 125 | 151 | 335 | 709 | 832 | 123 |
| 125° | 176 | 196 | 319 | 530 | 634 | 158 |
| 135° | 216 | 234 | 316 | 448 | 506 | 167 |
| 145° | 255 | 268 | 318 | 388 | 422 | 159 |
| 155° | 291 | 298 | 326 | 350 | 364 | 134 |
| 165° | 321 | 322 | 330 | 337 | 342 | 90 |
| 175° | 336 | 335 | 333 | 331 | 329 | 32 |
| 180° | 334 | 334 | 334 | 334 | 334 | |



TEST NUMBER: P562187

CATALOG NUMBER: SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2084.6 | 2084.6 | 2084.6 | 2084.6 | 2084.6 |
| 2.5° | 2096.4 | 2079.1 | 2084.6 | 2080.0 | 2069.9 |
| 5° | 2090.1 | 2066.8 | 2073.6 | 2068.0 | 2064.4 |
| 7.5° | 2068.8 | 2047.3 | 2052.3 | 2046.4 | 2044.2 |
| 10° | 2049.7 | 2028.2 | 2033.2 | 2025.8 | 2022.2 |
| 12.5° | 2027.7 | 2004.7 | 2009.7 | 2002.3 | 2000.1 |
| 15° | 1989.1 | 1964.0 | 1967.1 | 1963.3 | 1959.7 |
| 17.5° | 1944.3 | 1918.8 | 1919.3 | 1913.4 | 1912.7 |
| 20° | 1912.0 | 1885.0 | 1882.6 | 1875.3 | 1878.9 |
| 22.5° | 1876.7 | 1848.3 | 1845.9 | 1835.7 | 1840.7 |
| 25° | 1818.3 | 1787.8 | 1785.3 | 1774.4 | 1779.7 |
| 27.5° | 1750.7 | 1720.6 | 1720.6 | 1705.3 | 1711.1 |
| 30° | 1700.8 | 1672.0 | 1675.1 | 1656.8 | 1664.0 |
| 32.5° | 1647.9 | 1622.0 | 1623.6 | 1605.4 | 1612.6 |
| 35° | 1563.0 | 1541.5 | 1541.0 | 1526.4 | 1531.8 |
| 37.5° | 1476.3 | 1457.3 | 1454.3 | 1445.9 | 1447.3 |
| 40° | 1416.1 | 1399.9 | 1394.0 | 1388.5 | 1388.5 |
| 42.5° | 1352.9 | 1338.2 | 1332.3 | 1328.3 | 1326.8 |
| 45° | 1256.3 | 1245.5 | 1239.8 | 1236.0 | 1234.2 |
| 47.5° | 1160.8 | 1150.7 | 1145.7 | 1143.1 | 1141.3 |
| 50° | 1094.7 | 1087.5 | 1085.5 | 1079.9 | 1078.1 |
| 52.5° | 1028.5 | 1024.2 | 1022.3 | 1015.3 | 1013.5 |
| 55° | 931.2 | 929.4 | 931.2 | 918.3 | 916.5 |
| 57.5° | 829.8 | 832.7 | 838.6 | 821.3 | 817.0 |
| 60° | 762.2 | 769.4 | 776.9 | 756.5 | 749.4 |
| 62.5° | 693.2 | 704.7 | 715.2 | 691.8 | 681.8 |
| 65° | 589.6 | 607.5 | 619.0 | 594.6 | 574.9 |
| 67.5° | 489.7 | 511.9 | 525.7 | 499.4 | 477.2 |
| 70° | 420.6 | 445.7 | 461.0 | 434.7 | 409.6 |
| 72.5° | 360.4 | 388.4 | 400.8 | 375.9 | 350.8 |
| 75° | 271.8 | 297.0 | 312.2 | 291.4 | 264.5 |
| 77.5° | 192.9 | 216.6 | 229.2 | 211.1 | 188.8 |
| 80° | 141.4 | 166.6 | 176.3 | 161.2 | 143.3 |
| 82.5° | 100.3 | 121.1 | 127.8 | 118.7 | 106.5 |
| 85° | 45.9 | 60.3 | 68.0 | 64.2 | 60.6 |
| 87.5° | 11.8 | 21.8 | 27.9 | 28.0 | 29.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 5.1 | 26.9 | 62.5 | 18.2 | 13.7 |
| 95° | 16.5 | 65.6 | 294.6 | 102.0 | 62.9 |
| 97.5° | 30.3 | 76.8 | 453.7 | 324.7 | 222.5 |
| 100° | 40.0 | 83.5 | 488.3 | 494.6 | 381.0 |
| 102.5° | 50.7 | 90.6 | 480.6 | 633.0 | 533.8 |
| 105° | 67.3 | 102.1 | 441.3 | 779.4 | 740.9 |
| 107.5° | 84.2 | 115.4 | 395.3 | 820.7 | 855.0 |
| 110° | 95.9 | 125.1 | 368.9 | 804.9 | 881.9 |

TEST NUMBER: P562187

CATALOG NUMBER: SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 107.0 | 134.7 | 351.1 | 767.6 | 877.3 |
| 115° | 125.1 | 151.2 | 334.6 | 708.8 | 832.4 |
| 117.5° | 141.0 | 165.4 | 324.8 | 644.6 | 775.5 |
| 120° | 153.7 | 174.1 | 323.8 | 607.9 | 733.3 |
| 122.5° | 163.8 | 184.3 | 321.3 | 575.7 | 692.2 |
| 125° | 176.5 | 195.8 | 319.4 | 530.0 | 633.6 |
| 127.5° | 190.3 | 208.4 | 318.3 | 502.6 | 588.1 |
| 130° | 197.5 | 215.5 | 316.8 | 483.6 | 558.1 |
| 132.5° | 205.1 | 222.6 | 316.8 | 468.7 | 537.3 |
| 135° | 215.9 | 233.9 | 315.6 | 447.7 | 506.0 |
| 137.5° | 226.0 | 243.5 | 315.4 | 429.8 | 480.3 |
| 140° | 233.7 | 251.7 | 314.9 | 415.1 | 463.5 |
| 142.5° | 242.3 | 257.3 | 316.4 | 403.3 | 446.7 |
| 145° | 254.6 | 267.6 | 318.1 | 387.5 | 422.2 |
| 147.5° | 265.1 | 277.8 | 320.9 | 371.5 | 401.5 |
| 150° | 274.3 | 283.0 | 321.9 | 366.2 | 387.3 |
| 152.5° | 281.4 | 290.6 | 322.9 | 359.0 | 378.7 |
| 155° | 290.8 | 297.6 | 325.7 | 350.2 | 364.4 |
| 157.5° | 302.5 | 306.6 | 326.3 | 346.1 | 356.3 |
| 160° | 308.6 | 311.7 | 328.9 | 343.1 | 351.7 |
| 162.5° | 312.1 | 315.7 | 329.4 | 340.5 | 347.2 |
| 165° | 321.3 | 322.5 | 329.5 | 336.6 | 341.6 |
| 167.5° | 327.5 | 326.4 | 332.4 | 335.7 | 337.6 |
| 170° | 329.5 | 328.9 | 331.4 | 332.1 | 334.6 |
| 172.5° | 334.1 | 332.0 | 333.0 | 331.1 | 333.1 |
| 175° | 336.5 | 334.6 | 333.3 | 331.4 | 328.9 |
| 177.5° | 337.5 | 334.5 | 333.0 | 330.9 | 331.4 |
| 180° | 334.0 | 334.0 | 334.0 | 334.0 | 334.0 |

(END OF REPORT)