

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: P561780

Luminaire Tested: **SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561780  
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-050D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

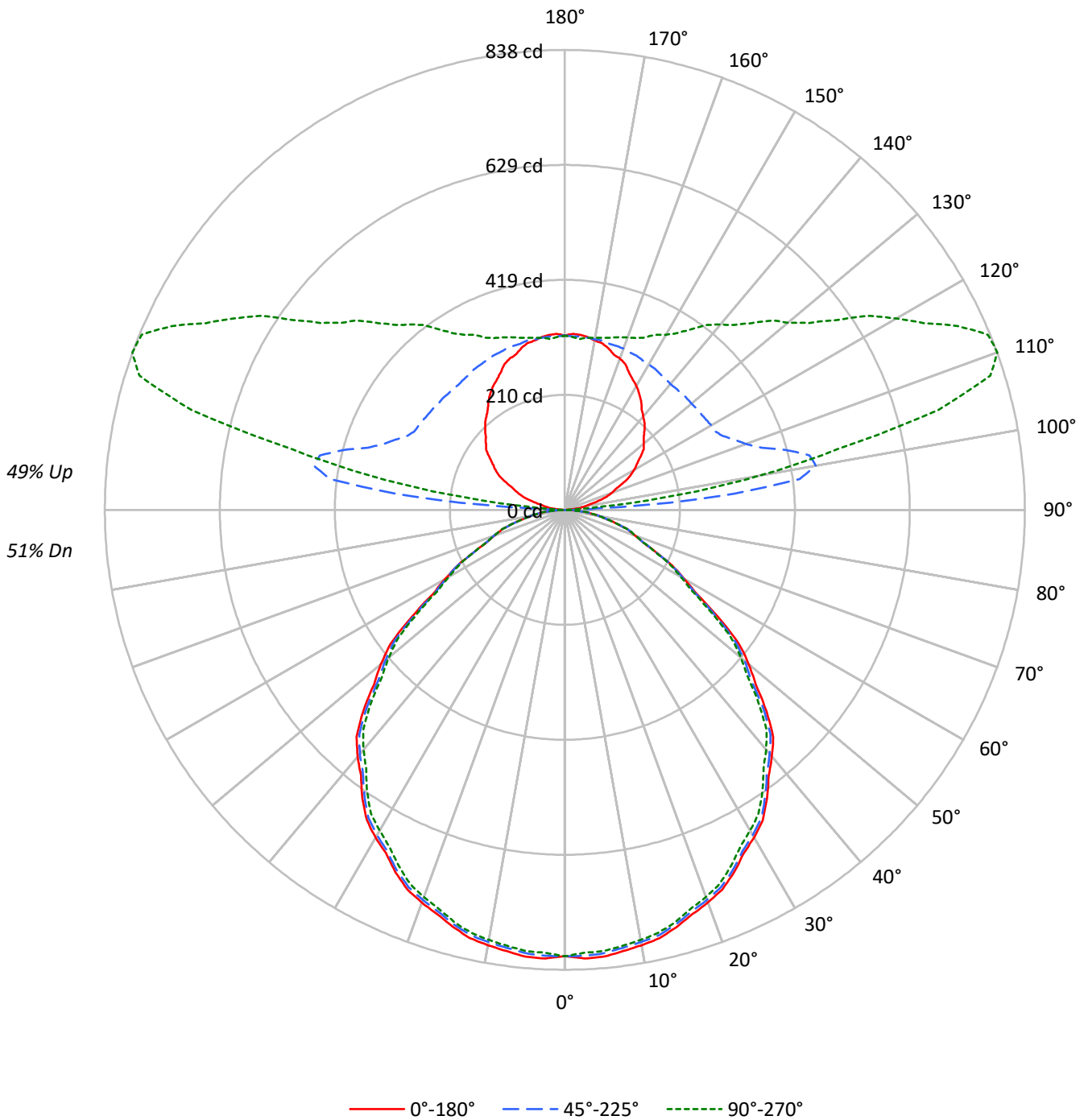
Lumens per Lamp: N/A  
Luminaire Lumens: 4005.3 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 34.7  
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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CATALOG NUMBER: SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P561780

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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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 |
| 1   | 98  | 94  | 90  | 87  | 91 | 87 | 84 | 81 | 74 | 72 | 69 | 62 | 60 | 59 | 51 | 50 | 49 | 43 |
| 2   | 90  | 82  | 76  | 71  | 83 | 76 | 71 | 67 | 65 | 61 | 58 | 55 | 52 | 49 | 45 | 43 | 41 | 37 |
| 3   | 82  | 73  | 66  | 60  | 75 | 67 | 61 | 56 | 58 | 53 | 49 | 49 | 45 | 42 | 40 | 38 | 36 | 31 |
| 4   | 75  | 65  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 43 | 39 | 36 | 36 | 33 | 31 | 27 |
| 5   | 69  | 58  | 50  | 44  | 64 | 54 | 47 | 41 | 46 | 41 | 36 | 39 | 35 | 32 | 33 | 29 | 27 | 24 |
| 6   | 64  | 52  | 44  | 38  | 59 | 48 | 41 | 36 | 42 | 36 | 32 | 35 | 31 | 28 | 30 | 26 | 24 | 21 |
| 7   | 59  | 47  | 39  | 33  | 54 | 44 | 37 | 32 | 38 | 32 | 28 | 32 | 28 | 25 | 27 | 24 | 21 | 19 |
| 8   | 55  | 42  | 35  | 30  | 50 | 40 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 25 | 22 | 19 | 17 |
| 9   | 51  | 39  | 31  | 26  | 47 | 36 | 30 | 25 | 32 | 26 | 22 | 27 | 23 | 20 | 23 | 20 | 17 | 15 |
| 10  | 48  | 36  | 28  | 24  | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 16 | 14 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7504 | 7504 | 7504 |
| 5°  | 7571 | 7513 | 7474 |
| 10° | 7547 | 7495 | 7455 |
| 15° | 7514 | 7467 | 7427 |
| 20° | 7477 | 7429 | 7373 |
| 25° | 7423 | 7373 | 7288 |
| 30° | 7343 | 7291 | 7187 |
| 35° | 7235 | 7172 | 7070 |
| 40° | 7070 | 6994 | 6867 |
| 45° | 6782 | 6664 | 6527 |
| 50° | 6274 | 6123 | 6003 |
| 55° | 5475 | 5352 | 5239 |
| 60° | 4615 | 4576 | 4486 |
| 65° | 3991 | 4006 | 3975 |
| 70° | 3666 | 3685 | 3685 |
| 75° | 3522 | 3522 | 3547 |
| 80° | 3310 | 3347 | 3310 |
| 85° | 2668 | 2964 | 2964 |



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CATALOG NUMBER: SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (4000K)

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.9   | 1.9       |
| 10°-20°   | 220.0  | 5.5       |
| 20°-30°   | 331.9  | 8.3       |
| 30°-40°   | 395.5  | 9.9       |
| 40°-50°   | 389.9  | 9.7       |
| 50°-60°   | 298.0  | 7.4       |
| 60°-70°   | 184.4  | 4.6       |
| 70°-80°   | 104.7  | 2.6       |
| 80°-90°   | 31.9   | 0.8       |
| 90°-100°  | 144.7  | 3.6       |
| 100°-110° | 411.6  | 10.3      |
| 110°-120° | 394.4  | 9.8       |
| 120°-130° | 312.1  | 7.8       |
| 130°-140° | 250.5  | 6.3       |
| 140°-150° | 196.1  | 4.9       |
| 150°-160° | 143.5  | 3.6       |
| 160°-170° | 88.9   | 2.2       |
| 170°-180° | 30.2   | 0.8       |
| 0°-30°    | 628.9  | 15.7      |
| 0°-40°    | 1024.3 | 25.6      |
| 0°-60°    | 1712.2 | 42.7      |
| 0°-90°    | 2033.1 | 50.8      |
| 90°-120°  | 950.7  | 23.7      |
| 90°-150°  | 1709.6 | 42.7      |
| 90°-180°  | 1972.0 | 49.2      |
| 0°-180°   | 4005.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 813 | 813   | 813 | 813   | 813 |      |
| 5°   | 818 | 809   | 811 | 808   | 807 | 78   |
| 15°  | 787 | 778   | 782 | 779   | 778 | 222  |
| 25°  | 729 | 720   | 724 | 717   | 716 | 336  |
| 35°  | 642 | 635   | 637 | 628   | 628 | 401  |
| 45°  | 520 | 513   | 511 | 502   | 500 | 398  |
| 55°  | 340 | 335   | 333 | 327   | 326 | 305  |
| 65°  | 183 | 182   | 184 | 182   | 182 | 185  |
| 75°  | 99  | 99    | 99  | 100   | 100 | 104  |
| 85°  | 25  | 27    | 28  | 28    | 28  | 29   |
| 90°  | 0   | 0     | 0   | 0     | 0   | 2    |
| 95°  | 16  | 62    | 280 | 97    | 60  | 18   |
| 105° | 64  | 97    | 420 | 741   | 704 | 68   |
| 115° | 119 | 144   | 318 | 674   | 791 | 117  |
| 125° | 168 | 186   | 304 | 504   | 602 | 150  |
| 135° | 205 | 222   | 300 | 426   | 481 | 158  |
| 145° | 242 | 254   | 302 | 368   | 401 | 151  |
| 155° | 276 | 283   | 310 | 333   | 346 | 128  |
| 165° | 305 | 307   | 313 | 320   | 325 | 86   |
| 175° | 320 | 318   | 317 | 315   | 313 | 30   |
| 180° | 318 | 318   | 318 | 318   | 318 |      |

TEST NUMBER: P561780

CATALOG NUMBER: SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 813.3 | 813.3 | 813.3 | 813.3 | 813.3 |
| 2.5°   | 818.3 | 811.2 | 813.3 | 811.5 | 807.7 |
| 5°     | 817.5 | 808.6 | 811.2 | 808.4 | 807.0 |
| 7.5°   | 811.2 | 802.4 | 805.0 | 802.2 | 801.4 |
| 10°    | 805.6 | 797.4 | 800.0 | 797.2 | 795.8 |
| 12.5°  | 799.4 | 790.7 | 793.8 | 790.4 | 789.1 |
| 15°    | 786.7 | 778.5 | 781.8 | 778.9 | 777.6 |
| 17.5°  | 772.7 | 763.9 | 767.2 | 763.9 | 762.2 |
| 20°    | 761.5 | 753.2 | 756.6 | 751.6 | 750.9 |
| 22.5°  | 749.1 | 740.9 | 744.2 | 737.6 | 737.5 |
| 25°    | 729.2 | 720.3 | 724.3 | 716.6 | 715.9 |
| 27.5°  | 705.6 | 697.3 | 700.7 | 692.8 | 692.0 |
| 30°    | 689.3 | 681.1 | 684.4 | 676.0 | 674.6 |
| 32.5°  | 670.8 | 663.1 | 665.9 | 657.5 | 656.7 |
| 35°    | 642.4 | 634.8 | 636.8 | 628.3 | 627.7 |
| 37.5°  | 610.0 | 603.2 | 604.3 | 595.0 | 594.3 |
| 40°    | 587.0 | 580.2 | 580.7 | 570.9 | 570.2 |
| 42.5°  | 561.8 | 555.0 | 554.4 | 544.6 | 543.9 |
| 45°    | 519.8 | 512.9 | 510.7 | 501.5 | 500.2 |
| 47.5°  | 471.9 | 465.0 | 460.8 | 453.3 | 452.4 |
| 50°    | 437.1 | 430.3 | 426.6 | 420.3 | 418.2 |
| 52.5°  | 399.6 | 392.7 | 389.6 | 383.8 | 381.8 |
| 55°    | 340.4 | 335.0 | 332.7 | 327.1 | 325.7 |
| 57.5°  | 284.3 | 280.6 | 279.9 | 274.4 | 273.9 |
| 60°    | 250.1 | 248.0 | 248.0 | 243.1 | 243.1 |
| 62.5°  | 220.9 | 219.4 | 220.5 | 217.3 | 216.7 |
| 65°    | 182.8 | 181.5 | 183.5 | 182.1 | 182.1 |
| 67.5°  | 152.7 | 152.7 | 154.0 | 153.4 | 153.4 |
| 70°    | 135.9 | 135.9 | 136.6 | 136.6 | 136.6 |
| 72.5°  | 120.8 | 120.2 | 122.0 | 122.0 | 121.5 |
| 75°    | 98.8  | 98.8  | 98.8  | 99.5  | 99.5  |
| 77.5°  | 76.9  | 77.1  | 77.6  | 77.5  | 76.9  |
| 80°    | 62.3  | 63.0  | 63.0  | 62.3  | 62.3  |
| 82.5°  | 47.8  | 48.5  | 48.5  | 48.3  | 47.8  |
| 85°    | 25.2  | 26.6  | 28.0  | 28.0  | 28.0  |
| 87.5°  | 7.3   | 9.5   | 11.2  | 11.2  | 10.6  |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 4.8   | 25.6  | 59.4  | 17.3  | 13.0  |
| 95°    | 15.7  | 62.3  | 280.1 | 96.9  | 59.8  |
| 97.5°  | 28.9  | 73.0  | 431.3 | 308.6 | 211.5 |
| 100°   | 38.0  | 79.3  | 464.2 | 470.2 | 362.2 |
| 102.5° | 48.2  | 86.2  | 456.9 | 601.8 | 507.5 |
| 105°   | 64.0  | 97.0  | 419.5 | 741.0 | 704.4 |
| 107.5° | 80.0  | 109.7 | 375.8 | 780.2 | 812.8 |
| 110°   | 91.1  | 118.9 | 350.7 | 765.2 | 838.4 |

TEST NUMBER: P561780

CATALOG NUMBER: SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 101.8 | 128.1 | 333.8 | 729.7 | 834.1 |
| 115°   | 118.9 | 143.7 | 318.1 | 673.9 | 791.3 |
| 117.5° | 134.0 | 157.3 | 308.8 | 612.8 | 737.2 |
| 120°   | 146.1 | 165.5 | 307.8 | 577.9 | 697.2 |
| 122.5° | 155.7 | 175.2 | 305.4 | 547.3 | 658.0 |
| 125°   | 167.8 | 186.1 | 303.6 | 503.8 | 602.4 |
| 127.5° | 181.0 | 198.1 | 302.6 | 477.8 | 559.1 |
| 130°   | 187.7 | 204.8 | 301.2 | 459.7 | 530.6 |
| 132.5° | 195.0 | 211.6 | 301.2 | 445.6 | 510.8 |
| 135°   | 205.2 | 222.3 | 300.0 | 425.6 | 481.1 |
| 137.5° | 214.9 | 231.5 | 299.9 | 408.6 | 456.6 |
| 140°   | 222.1 | 239.2 | 299.4 | 394.6 | 440.6 |
| 142.5° | 230.3 | 244.6 | 300.8 | 383.4 | 424.7 |
| 145°   | 242.0 | 254.4 | 302.4 | 368.3 | 401.4 |
| 147.5° | 252.1 | 264.1 | 305.1 | 353.2 | 381.7 |
| 150°   | 260.8 | 269.0 | 306.0 | 348.1 | 368.2 |
| 152.5° | 267.5 | 276.2 | 307.0 | 341.3 | 360.0 |
| 155°   | 276.4 | 282.9 | 309.6 | 332.9 | 346.5 |
| 157.5° | 287.6 | 291.4 | 310.2 | 329.1 | 338.7 |
| 160°   | 293.3 | 296.3 | 312.7 | 326.1 | 334.4 |
| 162.5° | 296.7 | 300.2 | 313.1 | 323.7 | 330.0 |
| 165°   | 305.4 | 306.6 | 313.3 | 320.0 | 324.7 |
| 167.5° | 311.3 | 310.3 | 316.0 | 319.1 | 321.0 |
| 170°   | 313.3 | 312.7 | 315.1 | 315.7 | 318.1 |
| 172.5° | 317.6 | 315.6 | 316.5 | 314.8 | 316.6 |
| 175°   | 319.9 | 318.1 | 316.9 | 315.0 | 312.7 |
| 177.5° | 320.9 | 318.0 | 316.5 | 314.6 | 315.1 |
| 180°   | 317.5 | 317.5 | 317.5 | 317.5 | 317.5 |

(END OF REPORT)