

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: P562038

Luminaire Tested: **SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562038  
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-PR1-125U-050D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

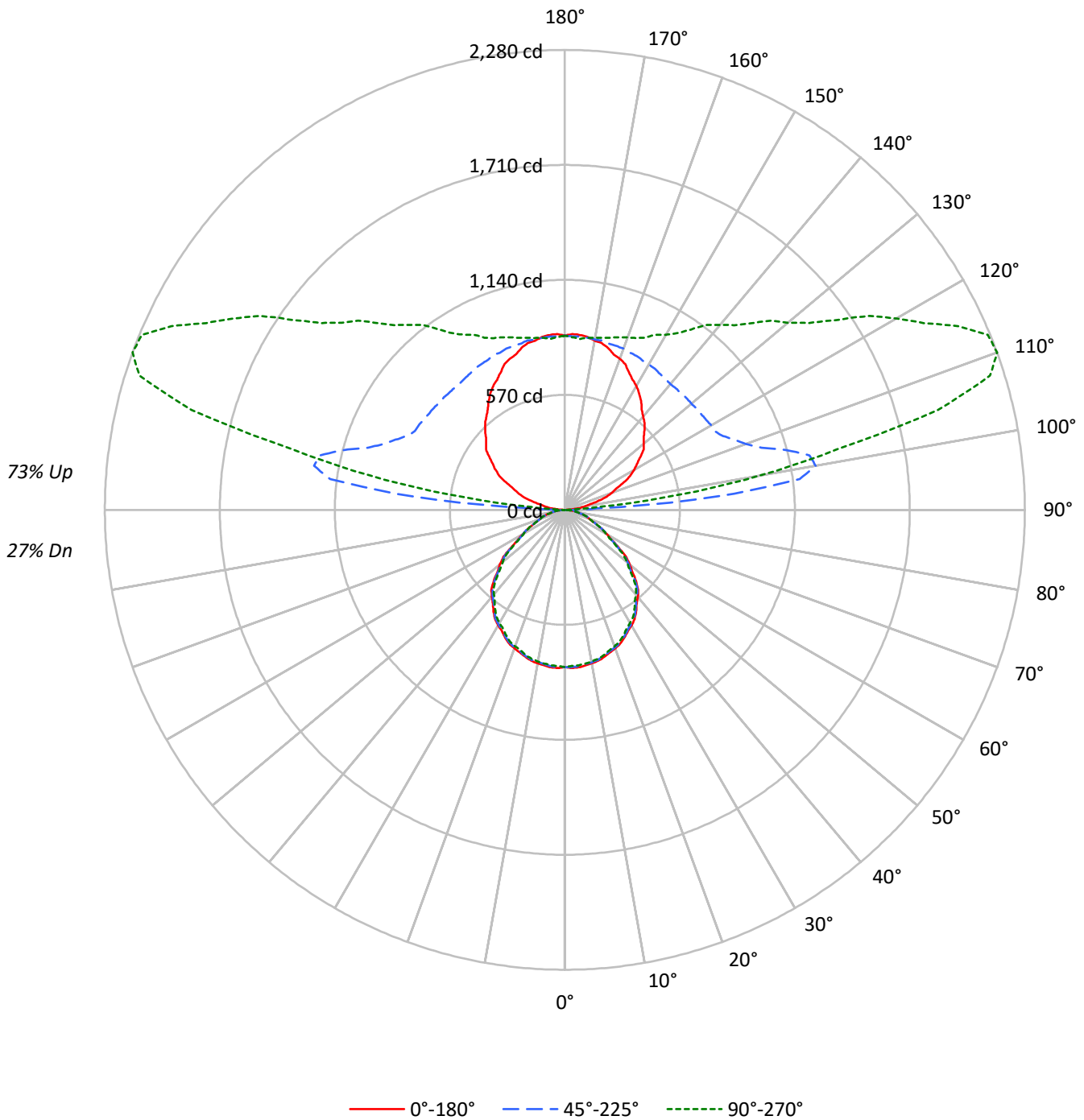
Lumens per Lamp: N/A  
Luminaire Lumens: 7313.0 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 62.2  
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: P562038

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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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 52 | 52 | 52 | 35 | 35 | 35 | 27 |
| 1   | 93  | 89  | 85  | 82  | 83 | 79 | 76 | 73 | 62 | 60 | 58 | 46 | 44 | 43 | 31 | 30 | 30 | 23 |
| 2   | 85  | 77  | 72  | 67  | 75 | 69 | 65 | 60 | 54 | 51 | 48 | 40 | 38 | 36 | 27 | 26 | 25 | 19 |
| 3   | 77  | 68  | 61  | 56  | 69 | 61 | 55 | 51 | 48 | 44 | 41 | 36 | 33 | 31 | 24 | 23 | 22 | 17 |
| 4   | 71  | 60  | 53  | 47  | 63 | 54 | 48 | 43 | 43 | 38 | 35 | 32 | 29 | 26 | 22 | 20 | 19 | 14 |
| 5   | 65  | 54  | 46  | 40  | 58 | 48 | 42 | 37 | 38 | 33 | 30 | 29 | 25 | 23 | 20 | 18 | 16 | 12 |
| 6   | 59  | 48  | 40  | 35  | 53 | 43 | 37 | 32 | 34 | 29 | 26 | 26 | 22 | 20 | 18 | 16 | 14 | 11 |
| 7   | 55  | 43  | 36  | 30  | 49 | 39 | 32 | 28 | 31 | 26 | 23 | 23 | 20 | 18 | 16 | 14 | 13 | 10 |
| 8   | 51  | 39  | 32  | 27  | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 16 | 15 | 13 | 11 | 9  |
| 9   | 47  | 36  | 28  | 24  | 42 | 32 | 26 | 22 | 26 | 21 | 18 | 20 | 16 | 14 | 14 | 12 | 10 | 8  |
| 10  | 44  | 32  | 26  | 21  | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | 13 | 11 | 9  | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7196 | 7196 | 7196 |
| 5°  | 7261 | 7205 | 7167 |
| 10° | 7238 | 7188 | 7150 |
| 15° | 7206 | 7161 | 7123 |
| 20° | 7170 | 7124 | 7071 |
| 25° | 7120 | 7071 | 6990 |
| 30° | 7043 | 6993 | 6892 |
| 35° | 6938 | 6878 | 6779 |
| 40° | 6781 | 6707 | 6587 |
| 45° | 6504 | 6390 | 6259 |
| 50° | 6017 | 5872 | 5757 |
| 55° | 5252 | 5133 | 5025 |
| 60° | 4425 | 4388 | 4301 |
| 65° | 3827 | 3842 | 3814 |
| 70° | 3515 | 3534 | 3534 |
| 75° | 3376 | 3376 | 3401 |
| 80° | 3177 | 3214 | 3177 |
| 85° | 2562 | 2848 | 2848 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.8   | 1.0       |
| 10°-20°   | 211.0  | 2.9       |
| 20°-30°   | 318.3  | 4.4       |
| 30°-40°   | 379.2  | 5.2       |
| 40°-50°   | 373.9  | 5.1       |
| 50°-60°   | 285.8  | 3.9       |
| 60°-70°   | 176.8  | 2.4       |
| 70°-80°   | 100.4  | 1.4       |
| 80°-90°   | 30.6   | 0.4       |
| 90°-100°  | 393.4  | 5.4       |
| 100°-110° | 1119.5 | 15.3      |
| 110°-120° | 1072.5 | 14.7      |
| 120°-130° | 848.9  | 11.6      |
| 130°-140° | 681.4  | 9.3       |
| 140°-150° | 533.4  | 7.3       |
| 150°-160° | 390.3  | 5.3       |
| 160°-170° | 241.8  | 3.3       |
| 170°-180° | 82.0   | 1.1       |
| 0°-30°    | 603.1  | 8.2       |
| 0°-40°    | 982.3  | 13.4      |
| 0°-60°    | 1642.0 | 22.5      |
| 0°-90°    | 1949.8 | 26.7      |
| 90°-120°  | 2585.4 | 35.4      |
| 90°-150°  | 4649.1 | 63.6      |
| 90°-180°  | 5363.0 | 73.3      |
| 0°-180°   | 7313.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 780 | 780   | 780  | 780   | 780  |      |
| 5°   | 784 | 776   | 778  | 775   | 774  | 74   |
| 15°  | 754 | 747   | 750  | 747   | 746  | 213  |
| 25°  | 699 | 691   | 695  | 687   | 687  | 322  |
| 35°  | 616 | 609   | 611  | 603   | 602  | 384  |
| 45°  | 498 | 492   | 490  | 481   | 480  | 382  |
| 55°  | 326 | 321   | 319  | 314   | 312  | 293  |
| 65°  | 175 | 174   | 176  | 175   | 175  | 178  |
| 75°  | 95  | 95    | 95   | 95    | 95   | 100  |
| 85°  | 24  | 26    | 27   | 27    | 27   | 28   |
| 90°  | 0   | 0     | 0    | 0     | 0    | 3    |
| 95°  | 43  | 170   | 762  | 264   | 162  | 49   |
| 105° | 174 | 264   | 1141 | 2015  | 1916 | 184  |
| 115° | 323 | 391   | 865  | 1832  | 2152 | 318  |
| 125° | 456 | 506   | 826  | 1370  | 1638 | 408  |
| 135° | 558 | 605   | 816  | 1157  | 1308 | 431  |
| 145° | 658 | 692   | 822  | 1002  | 1092 | 411  |
| 155° | 752 | 769   | 842  | 905   | 942  | 348  |
| 165° | 831 | 834   | 852  | 870   | 883  | 234  |
| 175° | 870 | 865   | 862  | 857   | 850  | 82   |
| 180° | 863 | 863   | 863  | 863   | 863  |      |

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CATALOG NUMBER: SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°    | 67.5°  | 90°    |
|--------|-------|-------|--------|--------|--------|
| 0°     | 780.0 | 780.0 | 780.0  | 780.0  | 780.0  |
| 2.5°   | 784.8 | 778.0 | 780.0  | 778.3  | 774.6  |
| 5°     | 784.0 | 775.5 | 778.0  | 775.2  | 773.9  |
| 7.5°   | 778.0 | 769.5 | 772.0  | 769.3  | 768.5  |
| 10°    | 772.6 | 764.7 | 767.2  | 764.5  | 763.2  |
| 12.5°  | 766.7 | 758.3 | 761.3  | 758.0  | 756.7  |
| 15°    | 754.4 | 746.6 | 749.7  | 747.0  | 745.7  |
| 17.5°  | 741.0 | 732.6 | 735.8  | 732.6  | 730.9  |
| 20°    | 730.3 | 722.4 | 725.6  | 720.8  | 720.2  |
| 22.5°  | 718.4 | 710.5 | 713.7  | 707.4  | 707.3  |
| 25°    | 699.4 | 690.8 | 694.6  | 687.2  | 686.6  |
| 27.5°  | 676.6 | 668.8 | 671.9  | 664.4  | 663.6  |
| 30°    | 661.1 | 653.2 | 656.4  | 648.3  | 646.9  |
| 32.5°  | 643.3 | 636.0 | 638.6  | 630.5  | 629.8  |
| 35°    | 616.0 | 608.8 | 610.7  | 602.6  | 601.9  |
| 37.5°  | 585.0 | 578.4 | 579.5  | 570.6  | 570.0  |
| 40°    | 563.0 | 556.4 | 556.9  | 547.5  | 546.9  |
| 42.5°  | 538.8 | 532.2 | 531.7  | 522.2  | 521.6  |
| 45°    | 498.5 | 491.9 | 489.7  | 481.0  | 479.7  |
| 47.5°  | 452.5 | 446.0 | 441.9  | 434.8  | 433.9  |
| 50°    | 419.2 | 412.6 | 409.1  | 403.0  | 401.1  |
| 52.5°  | 383.2 | 376.6 | 373.7  | 368.1  | 366.1  |
| 55°    | 326.5 | 321.2 | 319.1  | 313.7  | 312.4  |
| 57.5°  | 272.6 | 269.1 | 268.5  | 263.2  | 262.7  |
| 60°    | 239.8 | 237.9 | 237.8  | 233.1  | 233.1  |
| 62.5°  | 211.9 | 210.4 | 211.5  | 208.4  | 207.9  |
| 65°    | 175.3 | 174.0 | 176.0  | 174.7  | 174.7  |
| 67.5°  | 146.5 | 146.5 | 147.7  | 147.1  | 147.1  |
| 70°    | 130.3 | 130.3 | 131.0  | 131.0  | 131.0  |
| 72.5°  | 115.8 | 115.3 | 117.0  | 117.0  | 116.5  |
| 75°    | 94.7  | 94.7  | 94.7   | 95.4   | 95.4   |
| 77.5°  | 73.8  | 73.9  | 74.4   | 74.3   | 73.8   |
| 80°    | 59.8  | 60.4  | 60.5   | 59.8   | 59.8   |
| 82.5°  | 45.8  | 46.5  | 46.5   | 46.3   | 45.8   |
| 85°    | 24.2  | 25.5  | 26.9   | 26.9   | 26.9   |
| 87.5°  | 7.0   | 9.1   | 10.7   | 10.7   | 10.2   |
| 90°    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    |
| 92.5°  | 13.1  | 69.6  | 161.5  | 47.0   | 35.5   |
| 95°    | 42.7  | 169.5 | 761.6  | 263.6  | 162.5  |
| 97.5°  | 78.5  | 198.5 | 1173.0 | 839.3  | 575.2  |
| 100°   | 103.4 | 215.8 | 1262.3 | 1278.6 | 984.9  |
| 102.5° | 131.0 | 234.3 | 1242.6 | 1636.6 | 1380.1 |
| 105°   | 174.0 | 263.9 | 1140.8 | 2015.1 | 1915.6 |
| 107.5° | 217.7 | 298.2 | 1022.0 | 2121.8 | 2210.4 |
| 110°   | 247.9 | 323.3 | 953.7  | 2080.9 | 2279.9 |

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CATALOG NUMBER: SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 276.7 | 348.3 | 907.7 | 1984.4 | 2268.1 |
| 115°   | 323.4 | 390.8 | 865.0 | 1832.5 | 2151.9 |
| 117.5° | 364.4 | 427.6 | 839.8 | 1666.5 | 2004.8 |
| 120°   | 397.2 | 450.2 | 837.1 | 1571.7 | 1895.9 |
| 122.5° | 423.5 | 476.5 | 830.6 | 1488.4 | 1789.5 |
| 125°   | 456.3 | 506.1 | 825.6 | 1370.1 | 1638.1 |
| 127.5° | 492.1 | 538.6 | 823.0 | 1299.5 | 1520.3 |
| 130°   | 510.5 | 557.0 | 819.1 | 1250.2 | 1442.8 |
| 132.5° | 530.2 | 575.4 | 819.1 | 1211.8 | 1389.0 |
| 135°   | 558.1 | 604.6 | 815.8 | 1157.4 | 1308.2 |
| 137.5° | 584.3 | 629.6 | 815.5 | 1111.3 | 1241.6 |
| 140°   | 604.0 | 650.6 | 814.2 | 1073.1 | 1198.2 |
| 142.5° | 626.4 | 665.2 | 818.1 | 1042.6 | 1154.9 |
| 145°   | 658.2 | 691.9 | 822.4 | 1001.7 | 1091.6 |
| 147.5° | 685.5 | 718.2 | 829.6 | 960.4  | 1038.0 |
| 150°   | 709.1 | 731.6 | 832.2 | 946.7  | 1001.3 |
| 152.5° | 727.5 | 751.2 | 834.8 | 928.2  | 978.9  |
| 155°   | 751.8 | 769.4 | 842.1 | 905.3  | 942.2  |
| 157.5° | 782.0 | 792.6 | 843.7 | 894.9  | 921.2  |
| 160°   | 797.7 | 805.8 | 850.3 | 886.9  | 909.4  |
| 162.5° | 806.9 | 816.2 | 851.6 | 880.2  | 897.5  |
| 165°   | 830.6 | 833.8 | 851.9 | 870.3  | 883.1  |
| 167.5° | 846.7 | 843.8 | 859.5 | 867.8  | 872.9  |
| 170°   | 851.9 | 850.3 | 856.8 | 858.6  | 865.0  |
| 172.5° | 863.7 | 858.3 | 860.8 | 856.0  | 861.1  |
| 175°   | 870.0 | 865.1 | 861.8 | 856.7  | 850.3  |
| 177.5° | 872.6 | 864.9 | 860.8 | 855.5  | 856.8  |
| 180°   | 863.4 | 863.4 | 863.4 | 863.4  | 863.4  |

(END OF REPORT)