

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: P564142

Luminaire Tested: **SQ4-PR1-0U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564142  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-050D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

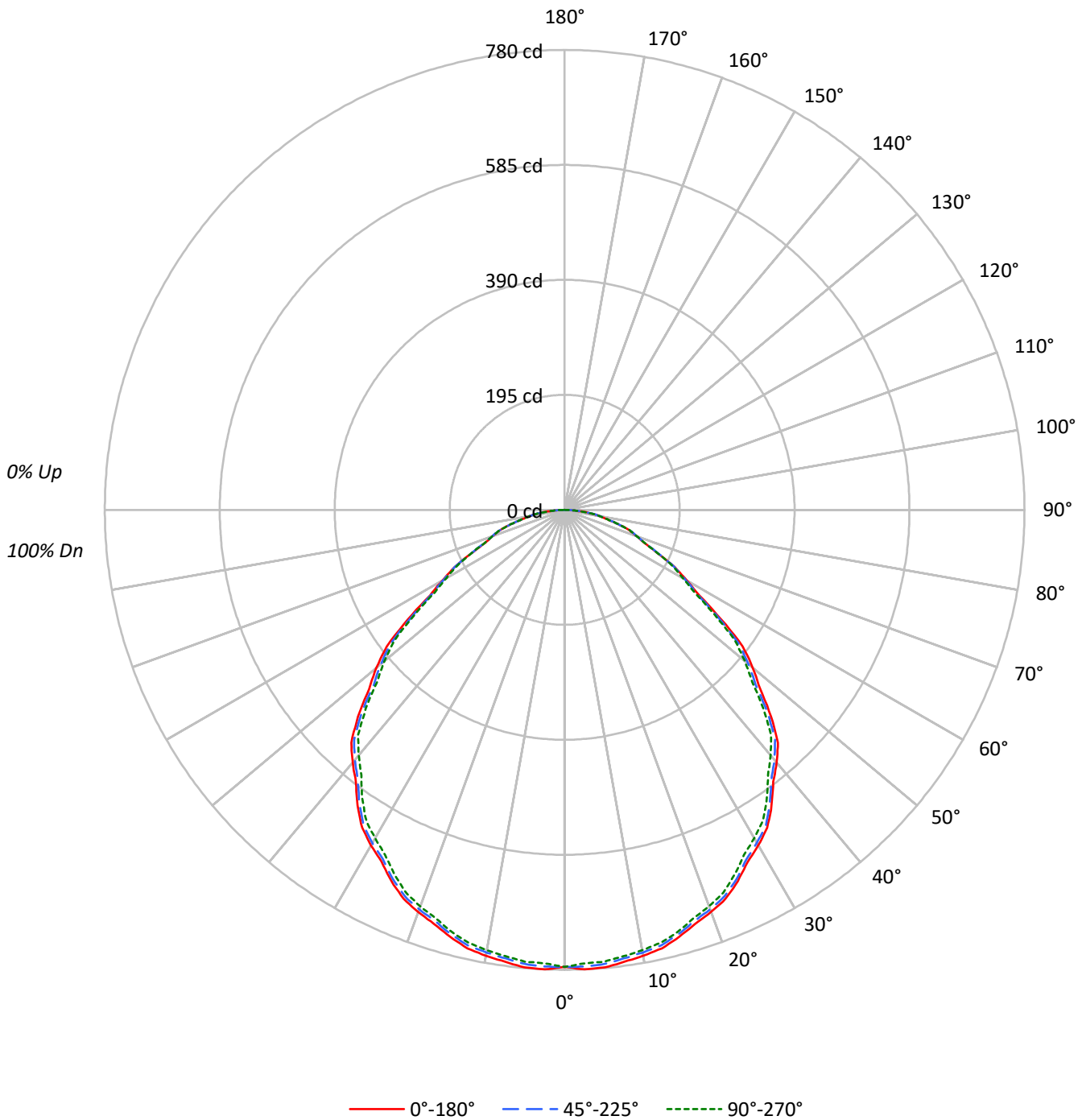
Lumens per Lamp: N/A  
Luminaire Lumens: 1937.8 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.2  
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





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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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  | 89  | 87  | 85  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  | 78  | 75  | 72  |
| 3   | 92  | 82  | 74  | 68  | 90  | 80  | 73  | 68  | 78  | 71  | 66  |  | 75  | 70  | 65  |  | 72  | 68  | 64  | 62  |
| 4   | 85  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 63  | 57  |  | 67  | 61  | 56  |  | 65  | 60  | 56  | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 50  | 63  | 55  | 50  |  | 61  | 54  | 49  |  | 59  | 53  | 49  | 47  |
| 6   | 72  | 59  | 51  | 45  | 70  | 58  | 50  | 44  | 57  | 49  | 44  |  | 55  | 49  | 44  |  | 53  | 48  | 43  | 41  |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 39  | 52  | 44  | 39  |  | 50  | 44  | 39  |  | 49  | 43  | 39  | 37  |
| 8   | 63  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  |  | 46  | 40  | 35  |  | 45  | 39  | 35  | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  |  | 43  | 36  | 32  |  | 42  | 36  | 31  | 30  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  |  | 40  | 33  | 29  |  | 39  | 33  | 29  | 27  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7152 | 7152 | 7152 |
| 5°  | 7217 | 7161 | 7123 |
| 10° | 7193 | 7144 | 7106 |
| 15° | 7162 | 7117 | 7079 |
| 20° | 7126 | 7080 | 7027 |
| 25° | 7075 | 7028 | 6947 |
| 30° | 6999 | 6949 | 6850 |
| 35° | 6895 | 6836 | 6738 |
| 40° | 6739 | 6666 | 6546 |
| 45° | 6464 | 6350 | 6220 |
| 50° | 5980 | 5836 | 5721 |
| 55° | 5220 | 5101 | 4995 |
| 60° | 4399 | 4362 | 4275 |
| 65° | 3805 | 3818 | 3790 |
| 70° | 3493 | 3512 | 3512 |
| 75° | 3354 | 3354 | 3379 |
| 80° | 3156 | 3193 | 3156 |
| 85° | 2541 | 2826 | 2826 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.3   | 3.8       |
| 10°-20°   | 209.7  | 10.8      |
| 20°-30°   | 316.3  | 16.3      |
| 30°-40°   | 376.9  | 19.5      |
| 40°-50°   | 371.6  | 19.2      |
| 50°-60°   | 284.0  | 14.7      |
| 60°-70°   | 175.8  | 9.1       |
| 70°-80°   | 99.8   | 5.2       |
| 80°-90°   | 30.4   | 1.6       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 599.4  | 30.9      |
| 0°-40°    | 976.3  | 50.4      |
| 0°-60°    | 1631.9 | 84.2      |
| 0°-90°    | 1937.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1937.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 775 | 775   | 775 | 775   | 775 |      |
| 5°  | 779 | 771   | 773 | 770   | 769 | 74   |
| 15° | 750 | 742   | 745 | 742   | 741 | 212  |
| 25° | 695 | 687   | 690 | 683   | 682 | 320  |
| 35° | 612 | 605   | 607 | 599   | 598 | 382  |
| 45° | 495 | 489   | 487 | 478   | 477 | 380  |
| 55° | 324 | 319   | 317 | 312   | 310 | 291  |
| 65° | 174 | 173   | 175 | 174   | 174 | 177  |
| 75° | 94  | 94    | 94  | 95    | 95  | 99   |
| 85° | 24  | 25    | 27  | 27    | 27  | 29   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 775.2 | 775.2 | 775.2 | 775.2 | 775.2 |
| 2.5°  | 780.0 | 773.2 | 775.2 | 773.5 | 769.8 |
| 5°    | 779.2 | 770.7 | 773.2 | 770.5 | 769.1 |
| 7.5°  | 773.2 | 764.8 | 767.3 | 764.6 | 763.8 |
| 10°   | 767.8 | 760.0 | 762.5 | 759.8 | 758.5 |
| 12.5° | 761.9 | 753.6 | 756.6 | 753.4 | 752.1 |
| 15°   | 749.8 | 742.0 | 745.1 | 742.4 | 741.1 |
| 17.5° | 736.4 | 728.1 | 731.2 | 728.1 | 726.4 |
| 20°   | 725.8 | 717.9 | 721.1 | 716.4 | 715.7 |
| 22.5° | 714.0 | 706.2 | 709.3 | 703.0 | 702.9 |
| 25°   | 695.0 | 686.6 | 690.4 | 683.0 | 682.4 |
| 27.5° | 672.5 | 664.6 | 667.8 | 660.3 | 659.5 |
| 30°   | 657.0 | 649.1 | 652.3 | 644.3 | 643.0 |
| 32.5° | 639.4 | 632.0 | 634.7 | 626.7 | 625.9 |
| 35°   | 612.2 | 605.1 | 606.9 | 598.9 | 598.2 |
| 37.5° | 581.4 | 574.9 | 575.9 | 567.1 | 566.4 |
| 40°   | 559.5 | 553.0 | 553.5 | 544.1 | 543.5 |
| 42.5° | 535.5 | 528.9 | 528.4 | 519.0 | 518.4 |
| 45°   | 495.4 | 488.9 | 486.7 | 478.0 | 476.7 |
| 47.5° | 449.7 | 443.2 | 439.2 | 432.1 | 431.2 |
| 50°   | 416.6 | 410.1 | 406.6 | 400.6 | 398.6 |
| 52.5° | 380.8 | 374.3 | 371.4 | 365.8 | 363.9 |
| 55°   | 324.5 | 319.3 | 317.1 | 311.8 | 310.5 |
| 57.5° | 270.9 | 267.4 | 266.8 | 261.6 | 261.1 |
| 60°   | 238.4 | 236.4 | 236.4 | 231.7 | 231.7 |
| 62.5° | 210.6 | 209.1 | 210.2 | 207.1 | 206.6 |
| 65°   | 174.3 | 173.0 | 174.9 | 173.6 | 173.6 |
| 67.5° | 145.6 | 145.6 | 146.8 | 146.2 | 146.2 |
| 70°   | 129.5 | 129.5 | 130.2 | 130.2 | 130.2 |
| 72.5° | 115.1 | 114.6 | 116.3 | 116.3 | 115.8 |
| 75°   | 94.1  | 94.1  | 94.1  | 94.8  | 94.8  |
| 77.5° | 73.3  | 73.4  | 74.0  | 73.8  | 73.3  |
| 80°   | 59.4  | 60.1  | 60.1  | 59.4  | 59.4  |
| 82.5° | 45.5  | 46.2  | 46.2  | 46.1  | 45.5  |
| 85°   | 24.0  | 25.3  | 26.7  | 26.7  | 26.7  |
| 87.5° | 6.9   | 9.0   | 10.7  | 10.7  | 10.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)