

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: P564152

Luminaire Tested: **SQ4-PR1-0U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564152  
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-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

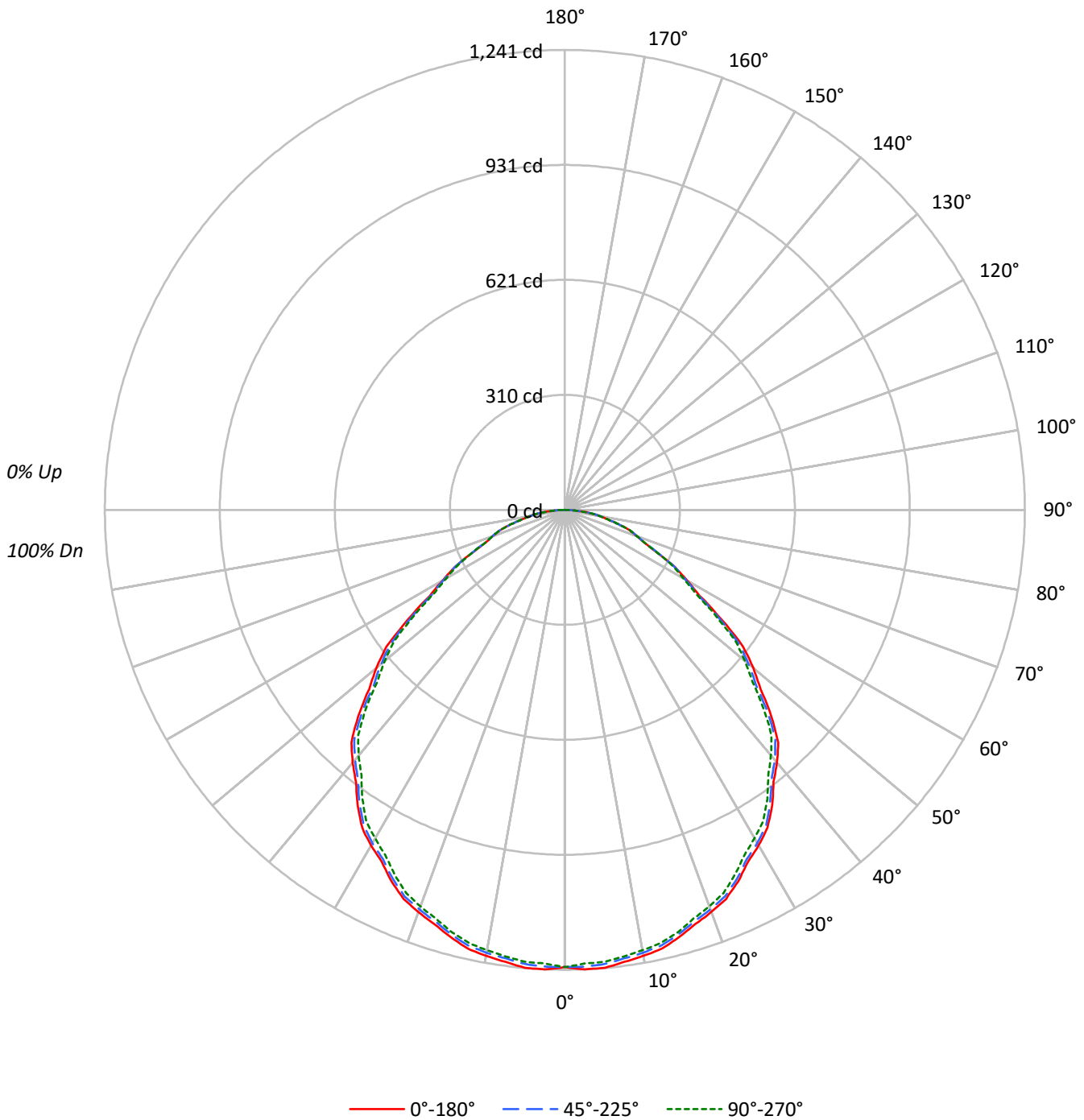
Lumens per Lamp: N/A  
Luminaire Lumens: 3084.1 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
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  |     |     |  |  |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |  |  |
| 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°  | 5691 | 5691 | 5691 |
| 5°  | 5742 | 5698 | 5668 |
| 10° | 5724 | 5684 | 5654 |
| 15° | 5699 | 5664 | 5633 |
| 20° | 5670 | 5634 | 5592 |
| 25° | 5631 | 5592 | 5528 |
| 30° | 5570 | 5530 | 5451 |
| 35° | 5487 | 5440 | 5362 |
| 40° | 5363 | 5305 | 5209 |
| 45° | 5143 | 5053 | 4950 |
| 50° | 4759 | 4644 | 4553 |
| 55° | 4153 | 4059 | 3974 |
| 60° | 3499 | 3471 | 3402 |
| 65° | 3027 | 3039 | 3016 |
| 70° | 2780 | 2795 | 2795 |
| 75° | 2670 | 2670 | 2690 |
| 80° | 2513 | 2540 | 2513 |
| 85° | 2027 | 2249 | 2249 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.7  | 3.8       |
| 10°-20°   | 333.8  | 10.8      |
| 20°-30°   | 503.5  | 16.3      |
| 30°-40°   | 599.9  | 19.5      |
| 40°-50°   | 591.4  | 19.2      |
| 50°-60°   | 452.0  | 14.7      |
| 60°-70°   | 279.7  | 9.1       |
| 70°-80°   | 158.9  | 5.2       |
| 80°-90°   | 48.3   | 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°    | 953.9  | 30.9      |
| 0°-40°    | 1553.8 | 50.4      |
| 0°-60°    | 2597.2 | 84.2      |
| 0°-90°    | 3084.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3084.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1234 | 1234  | 1234 | 1234  | 1234 |      |
| 5°  | 1240 | 1226  | 1230 | 1226  | 1224 | 118  |
| 15° | 1193 | 1181  | 1186 | 1182  | 1180 | 337  |
| 25° | 1106 | 1093  | 1099 | 1087  | 1086 | 509  |
| 35° | 974  | 963   | 966  | 953   | 952  | 608  |
| 45° | 788  | 778   | 775  | 761   | 759  | 604  |
| 55° | 516  | 508   | 505  | 496   | 494  | 463  |
| 65° | 277  | 275   | 278  | 276   | 276  | 281  |
| 75° | 150  | 150   | 150  | 151   | 151  | 158  |
| 85° | 38   | 40    | 42   | 42    | 42   | 46   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1233.7 | 1233.7 | 1233.7 | 1233.7 | 1233.7 |
| 2.5°  | 1241.3 | 1230.5 | 1233.7 | 1231.0 | 1225.2 |
| 5°    | 1240.0 | 1226.5 | 1230.5 | 1226.2 | 1224.1 |
| 7.5°  | 1230.5 | 1217.2 | 1221.1 | 1216.9 | 1215.6 |
| 10°   | 1222.0 | 1209.5 | 1213.5 | 1209.2 | 1207.1 |
| 12.5° | 1212.6 | 1199.3 | 1204.1 | 1199.0 | 1196.9 |
| 15°   | 1193.3 | 1180.8 | 1185.9 | 1181.6 | 1179.5 |
| 17.5° | 1172.0 | 1158.7 | 1163.8 | 1158.8 | 1156.1 |
| 20°   | 1155.0 | 1142.6 | 1147.6 | 1140.1 | 1139.1 |
| 22.5° | 1136.3 | 1123.9 | 1128.9 | 1118.9 | 1118.7 |
| 25°   | 1106.2 | 1092.7 | 1098.7 | 1087.0 | 1086.0 |
| 27.5° | 1070.2 | 1057.8 | 1062.8 | 1050.9 | 1049.6 |
| 30°   | 1045.6 | 1033.1 | 1038.2 | 1025.4 | 1023.3 |
| 32.5° | 1017.5 | 1005.9 | 1010.1 | 997.3  | 996.1  |
| 35°   | 974.4  | 963.0  | 965.9  | 953.1  | 952.1  |
| 37.5° | 925.3  | 914.9  | 916.6  | 902.5  | 901.5  |
| 40°   | 890.5  | 880.1  | 880.9  | 866.0  | 865.0  |
| 42.5° | 852.2  | 841.8  | 840.9  | 826.0  | 825.0  |
| 45°   | 788.4  | 778.1  | 774.6  | 760.8  | 758.7  |
| 47.5° | 715.8  | 705.4  | 699.0  | 687.7  | 686.2  |
| 50°   | 663.1  | 652.7  | 647.1  | 637.5  | 634.4  |
| 52.5° | 606.1  | 595.7  | 591.0  | 582.2  | 579.1  |
| 55°   | 516.4  | 508.1  | 504.7  | 496.2  | 494.1  |
| 57.5° | 431.2  | 425.6  | 424.6  | 416.3  | 415.5  |
| 60°   | 379.3  | 376.2  | 376.2  | 368.7  | 368.7  |
| 62.5° | 335.1  | 332.9  | 334.5  | 329.6  | 328.8  |
| 65°   | 277.3  | 275.3  | 278.4  | 276.3  | 276.3  |
| 67.5° | 231.6  | 231.6  | 233.6  | 232.7  | 232.7  |
| 70°   | 206.1  | 206.1  | 207.2  | 207.2  | 207.2  |
| 72.5° | 183.2  | 182.4  | 185.1  | 185.1  | 184.3  |
| 75°   | 149.8  | 149.8  | 149.8  | 150.9  | 150.9  |
| 77.5° | 116.7  | 116.9  | 117.7  | 117.5  | 116.7  |
| 80°   | 94.6   | 95.6   | 95.6   | 94.6   | 94.6   |
| 82.5° | 72.5   | 73.5   | 73.5   | 73.3   | 72.5   |
| 85°   | 38.3   | 40.3   | 42.5   | 42.5   | 42.5   |
| 87.5° | 11.1   | 14.4   | 17.0   | 17.0   | 16.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)