

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: P562850

Luminaire Tested: **SQ4-PC3-0U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562850  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-0U-100D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

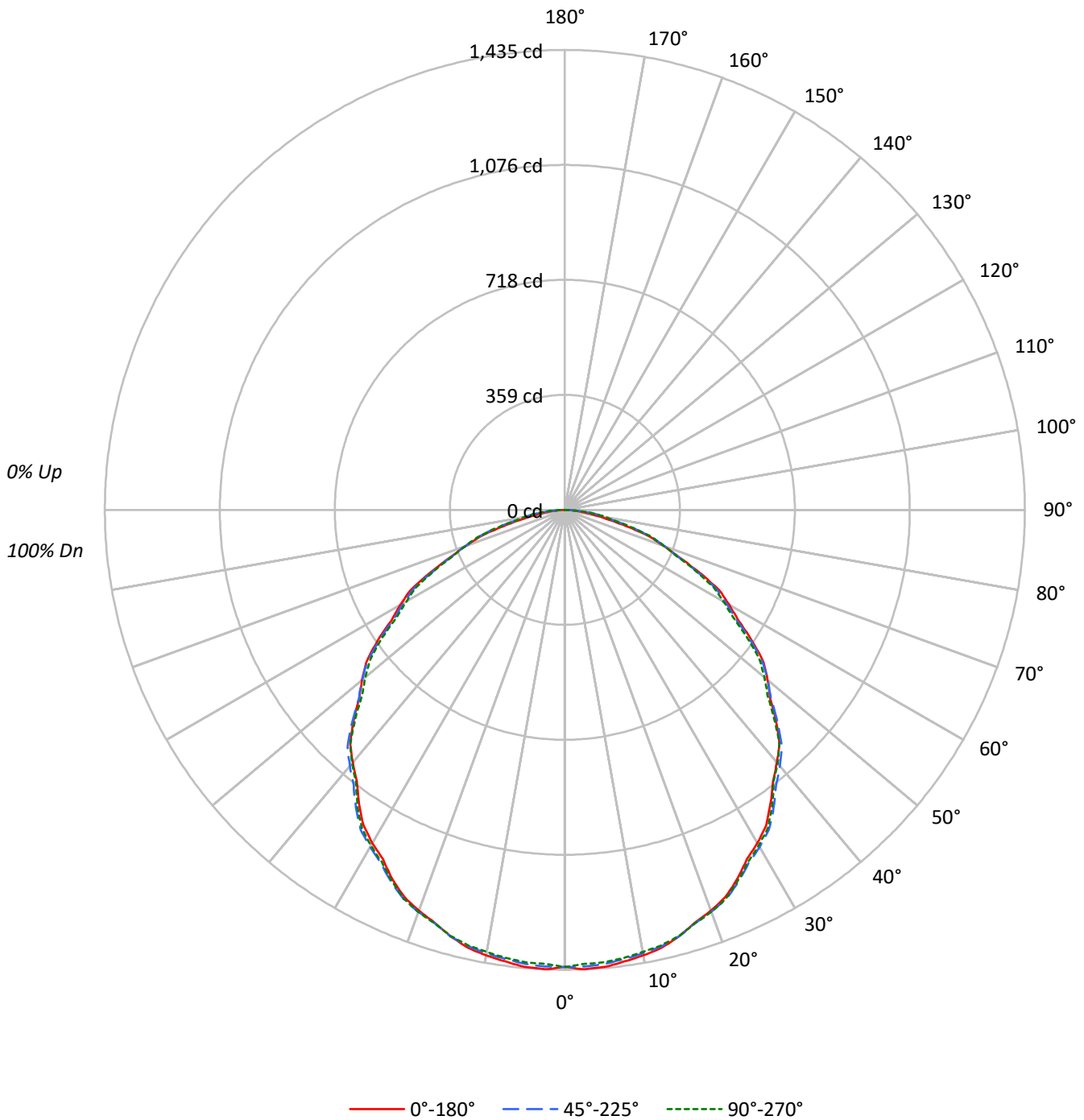
Lumens per Lamp: N/A  
Luminaire Lumens: 3892.7 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.8  
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   | 109 | 105 | 100 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 88  | 87  | 85  |
| 2   | 99  | 91  | 85  | 79  | 97  | 90  | 83  | 78  | 86  | 81  | 76  | 83  | 78  | 75  | 80  | 76  | 73  | 71  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 70  | 64  | 73  | 68  | 63  | 71  | 66  | 62  | 60  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |
| 5   | 77  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 61  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 44  |
| 6   | 71  | 58  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 52  | 46  | 41  | 39  |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 36  | 34  |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 28  |
| 10  | 54  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13159 | 13159 | 13159 |
| 5°  | 13259 | 13173 | 13124 |
| 10° | 13226 | 13165 | 13127 |
| 15° | 13157 | 13157 | 13145 |
| 20° | 13070 | 13109 | 13109 |
| 25° | 12947 | 13042 | 13001 |
| 30° | 12790 | 12944 | 12888 |
| 35° | 12599 | 12793 | 12704 |
| 40° | 12391 | 12565 | 12439 |
| 45° | 12166 | 12252 | 12063 |
| 50° | 11847 | 11847 | 11658 |
| 55° | 11472 | 11323 | 11154 |
| 60° | 10918 | 10699 | 10527 |
| 65° | 10090 | 9889  | 9802  |
| 70° | 8835  | 8907  | 8872  |
| 75° | 7108  | 7864  | 7910  |
| 80° | 5053  | 6668  | 6737  |
| 85° | 3080  | 5589  | 5589  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 135.0  | 3.5       |
| 10°-20°   | 387.4  | 10.0      |
| 20°-30°   | 586.6  | 15.1      |
| 30°-40°   | 703.3  | 18.1      |
| 40°-50°   | 717.1  | 18.4      |
| 50°-60°   | 626.0  | 16.1      |
| 60°-70°   | 448.2  | 11.5      |
| 70°-80°   | 230.8  | 5.9       |
| 80°-90°   | 58.4   | 1.5       |
| 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°    | 1109.0 | 28.5      |
| 0°-40°    | 1812.3 | 46.6      |
| 0°-60°    | 3155.4 | 81.1      |
| 0°-90°    | 3892.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3892.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1426 | 1426  | 1426 | 1426  | 1426 |      |
| 5°  | 1432 | 1417  | 1422 | 1418  | 1417 | 136  |
| 15° | 1378 | 1366  | 1378 | 1377  | 1376 | 388  |
| 25° | 1272 | 1263  | 1281 | 1277  | 1277 | 585  |
| 35° | 1119 | 1116  | 1136 | 1128  | 1128 | 700  |
| 45° | 932  | 930   | 939  | 927   | 924  | 718  |
| 55° | 713  | 704   | 704  | 693   | 693  | 636  |
| 65° | 462  | 452   | 453  | 449   | 449  | 457  |
| 75° | 199  | 208   | 221  | 222   | 222  | 215  |
| 85° | 29   | 45    | 53   | 54    | 53   | 41   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1426.3 | 1426.3 | 1426.3 | 1426.3 | 1426.3 |
| 2.5°  | 1434.8 | 1422.4 | 1426.3 | 1423.1 | 1417.9 |
| 5°    | 1431.6 | 1417.4 | 1422.4 | 1418.4 | 1417.1 |
| 7.5°  | 1421.3 | 1407.1 | 1413.7 | 1411.0 | 1409.7 |
| 10°   | 1411.8 | 1397.6 | 1405.2 | 1402.5 | 1401.2 |
| 12.5° | 1399.1 | 1386.0 | 1394.6 | 1392.0 | 1391.7 |
| 15°   | 1377.5 | 1365.9 | 1377.5 | 1377.4 | 1376.2 |
| 17.5° | 1350.3 | 1339.7 | 1352.1 | 1352.9 | 1352.1 |
| 20°   | 1331.2 | 1319.6 | 1335.2 | 1333.9 | 1335.2 |
| 22.5° | 1308.0 | 1298.4 | 1315.1 | 1311.7 | 1313.0 |
| 25°   | 1271.8 | 1262.8 | 1281.1 | 1277.1 | 1277.1 |
| 27.5° | 1229.0 | 1222.6 | 1242.5 | 1238.3 | 1238.3 |
| 30°   | 1200.5 | 1194.0 | 1215.0 | 1209.7 | 1209.7 |
| 32.5° | 1168.8 | 1164.4 | 1184.4 | 1178.0 | 1178.0 |
| 35°   | 1118.6 | 1116.0 | 1135.8 | 1127.9 | 1127.9 |
| 37.5° | 1066.8 | 1064.5 | 1082.4 | 1072.9 | 1069.8 |
| 40°   | 1028.8 | 1027.5 | 1043.3 | 1032.8 | 1032.8 |
| 42.5° | 990.8  | 989.5  | 1003.2 | 990.5  | 990.5  |
| 45°   | 932.4  | 929.8  | 939.0  | 927.1  | 924.5  |
| 47.5° | 868.7  | 866.2  | 871.9  | 858.9  | 857.7  |
| 50°   | 825.4  | 822.8  | 825.4  | 813.5  | 812.2  |
| 52.5° | 781.1  | 776.4  | 776.8  | 764.9  | 764.7  |
| 55°   | 713.2  | 704.1  | 703.9  | 693.4  | 693.4  |
| 57.5° | 641.3  | 629.4  | 630.5  | 621.5  | 620.2  |
| 60°   | 591.7  | 578.8  | 579.8  | 571.8  | 570.5  |
| 62.5° | 543.1  | 528.1  | 531.2  | 522.2  | 521.9  |
| 65°   | 462.2  | 451.9  | 453.0  | 449.0  | 449.0  |
| 67.5° | 384.6  | 375.0  | 381.9  | 378.8  | 378.5  |
| 70°   | 327.5  | 321.1  | 330.2  | 330.1  | 328.9  |
| 72.5° | 274.7  | 274.4  | 285.8  | 285.8  | 286.6  |
| 75°   | 199.4  | 208.5  | 220.6  | 221.9  | 221.9  |
| 77.5° | 133.1  | 149.1  | 162.4  | 163.0  | 162.7  |
| 80°   | 95.1   | 113.2  | 125.5  | 128.1  | 126.8  |
| 82.5° | 64.4   | 83.6   | 93.8   | 96.4   | 95.1   |
| 85°   | 29.1   | 44.6   | 52.8   | 54.1   | 52.8   |
| 87.5° | 8.5    | 17.7   | 21.1   | 21.1   | 19.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)