

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: P561600

Luminaire Tested: **SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561600  
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-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4176.3 lumens  
Efficiency: N/A  
Efficacy: 98.7 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

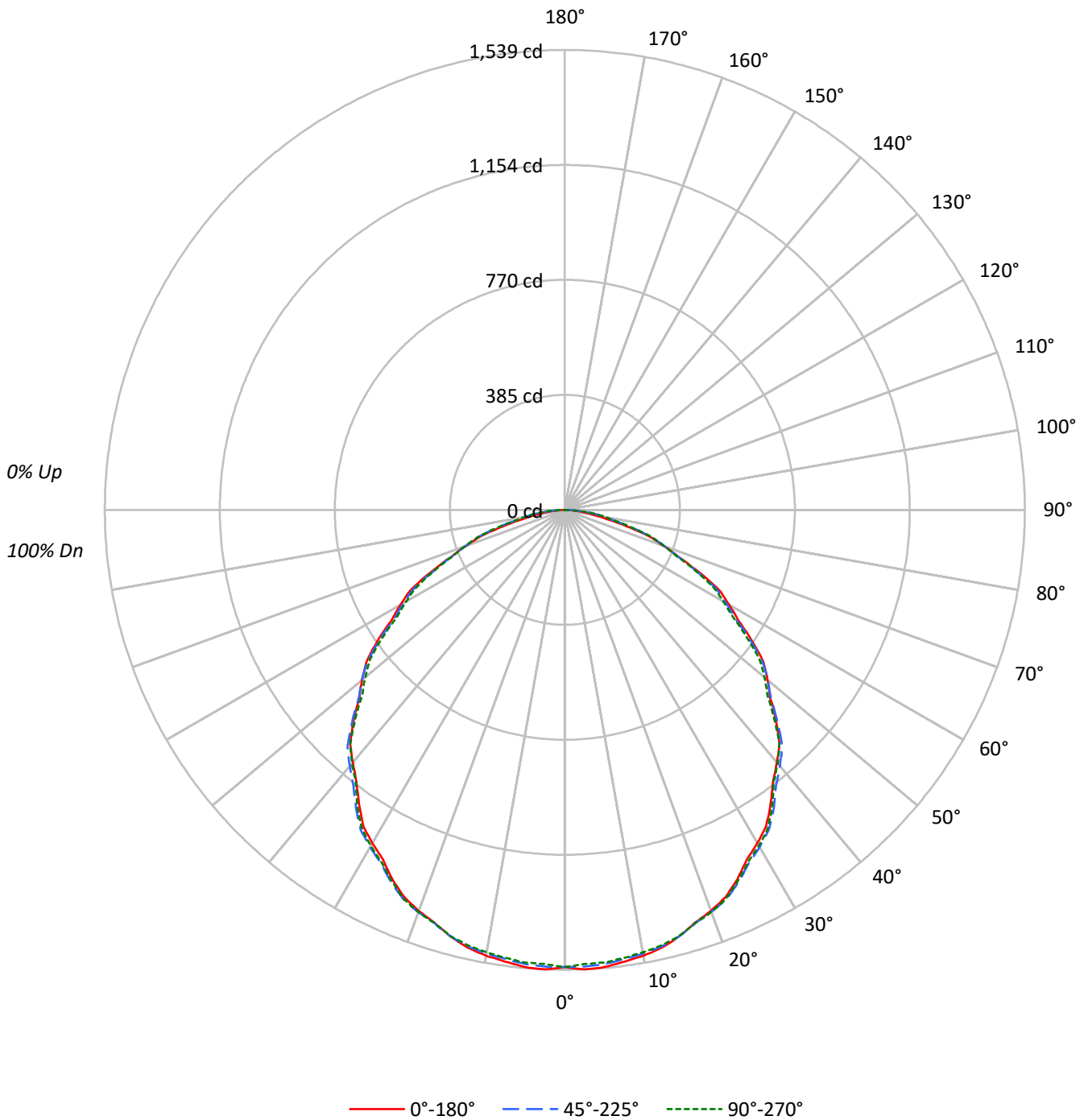
Input Watts (W): 42.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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  | 50  | 30 | 10 | 0  |     |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    | 100 |
| 1   | 109 | 105 | 100 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 88  | 87  | 85  |    |    |    | 85  |
| 2   | 99  | 91  | 85  | 79  | 97  | 90  | 83  | 78  | 86  | 81  | 76  | 83  | 78  | 75  | 80  | 76  | 73  | 71  |    |    |    | 71  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 70  | 64  | 73  | 68  | 63  | 71  | 66  | 62  | 60  |    |    |    | 60  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |    | 51  |
| 5   | 77  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 61  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 44  |    |    |    | 44  |
| 6   | 71  | 58  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 52  | 46  | 41  | 39  |    |    |    | 39  |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 36  | 34  |    |    |    | 34  |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |    | 31  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 28  |    |    |    | 28  |
| 10  | 54  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |    |    |    | 25  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14118 | 14118 | 14118 |
| 5°  | 14225 | 14133 | 14080 |
| 10° | 14190 | 14124 | 14084 |
| 15° | 14115 | 14115 | 14102 |
| 20° | 14023 | 14065 | 14065 |
| 25° | 13891 | 13991 | 13948 |
| 30° | 13721 | 13887 | 13827 |
| 35° | 13517 | 13724 | 13628 |
| 40° | 13294 | 13481 | 13345 |
| 45° | 13052 | 13144 | 12941 |
| 50° | 12711 | 12711 | 12508 |
| 55° | 12307 | 12148 | 11966 |
| 60° | 11714 | 11477 | 11295 |
| 65° | 10826 | 10610 | 10516 |
| 70° | 9479  | 9555  | 9517  |
| 75° | 7625  | 8434  | 8484  |
| 80° | 5419  | 7152  | 7226  |
| 85° | 3303  | 6002  | 6002  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 144.8  | 3.5       |
| 10°-20°   | 415.6  | 10.0      |
| 20°-30°   | 629.4  | 15.1      |
| 30°-40°   | 754.5  | 18.1      |
| 40°-50°   | 769.4  | 18.4      |
| 50°-60°   | 671.6  | 16.1      |
| 60°-70°   | 480.8  | 11.5      |
| 70°-80°   | 247.6  | 5.9       |
| 80°-90°   | 62.6   | 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°    | 1189.8 | 28.5      |
| 0°-40°    | 1944.3 | 46.6      |
| 0°-60°    | 3385.3 | 81.1      |
| 0°-90°    | 4176.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4176.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1530 | 1530  | 1530 | 1530  | 1530 |      |
| 5°  | 1536 | 1521  | 1526 | 1522  | 1520 | 146  |
| 15° | 1478 | 1465  | 1478 | 1478  | 1476 | 417  |
| 25° | 1364 | 1355  | 1374 | 1370  | 1370 | 628  |
| 35° | 1200 | 1197  | 1218 | 1210  | 1210 | 751  |
| 45° | 1000 | 998   | 1007 | 995   | 992  | 770  |
| 55° | 765  | 755   | 755  | 744   | 744  | 682  |
| 65° | 496  | 485   | 486  | 482   | 482  | 490  |
| 75° | 214  | 224   | 237  | 238   | 238  | 231  |
| 85° | 31   | 48    | 57   | 58    | 57   | 44   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1530.2 | 1530.2 | 1530.2 | 1530.2 | 1530.2 |
| 2.5°  | 1539.3 | 1526.0 | 1530.2 | 1526.7 | 1521.2 |
| 5°    | 1535.9 | 1520.7 | 1526.0 | 1521.7 | 1520.3 |
| 7.5°  | 1524.8 | 1509.6 | 1516.6 | 1513.8 | 1512.4 |
| 10°   | 1514.6 | 1499.4 | 1507.6 | 1504.7 | 1503.3 |
| 12.5° | 1501.0 | 1486.9 | 1496.2 | 1493.4 | 1493.1 |
| 15°   | 1477.8 | 1465.3 | 1477.8 | 1477.8 | 1476.4 |
| 17.5° | 1448.6 | 1437.3 | 1450.6 | 1451.4 | 1450.6 |
| 20°   | 1428.2 | 1415.7 | 1432.5 | 1431.1 | 1432.5 |
| 22.5° | 1403.3 | 1393.0 | 1410.9 | 1407.3 | 1408.7 |
| 25°   | 1364.5 | 1354.8 | 1374.4 | 1370.1 | 1370.1 |
| 27.5° | 1318.6 | 1311.6 | 1333.0 | 1328.5 | 1328.5 |
| 30°   | 1287.9 | 1281.0 | 1303.5 | 1297.9 | 1297.9 |
| 32.5° | 1253.9 | 1249.2 | 1270.7 | 1263.9 | 1263.9 |
| 35°   | 1200.1 | 1197.3 | 1218.5 | 1210.0 | 1210.0 |
| 37.5° | 1144.6 | 1142.1 | 1161.3 | 1151.0 | 1147.7 |
| 40°   | 1103.8 | 1102.4 | 1119.3 | 1108.0 | 1108.0 |
| 42.5° | 1062.9 | 1061.6 | 1076.3 | 1062.7 | 1062.7 |
| 45°   | 1000.3 | 997.5  | 1007.4 | 994.6  | 991.8  |
| 47.5° | 932.0  | 929.3  | 935.4  | 921.5  | 920.1  |
| 50°   | 885.6  | 882.8  | 885.6  | 872.8  | 871.4  |
| 52.5° | 837.9  | 833.0  | 833.4  | 820.7  | 820.4  |
| 55°   | 765.1  | 755.4  | 755.2  | 743.9  | 743.9  |
| 57.5° | 688.0  | 675.3  | 676.4  | 666.8  | 665.4  |
| 60°   | 634.8  | 620.9  | 622.0  | 613.5  | 612.1  |
| 62.5° | 582.6  | 566.6  | 569.9  | 560.2  | 560.0  |
| 65°   | 495.9  | 484.8  | 486.0  | 481.7  | 481.7  |
| 67.5° | 412.6  | 402.3  | 409.8  | 406.4  | 406.1  |
| 70°   | 351.4  | 344.5  | 354.2  | 354.2  | 352.8  |
| 72.5° | 294.7  | 294.4  | 306.6  | 306.6  | 307.5  |
| 75°   | 213.9  | 223.6  | 236.6  | 238.0  | 238.0  |
| 77.5° | 142.8  | 160.0  | 174.3  | 174.8  | 174.6  |
| 80°   | 102.0  | 121.4  | 134.6  | 137.4  | 136.0  |
| 82.5° | 69.1   | 89.6   | 100.6  | 103.4  | 102.0  |
| 85°   | 31.2   | 47.8   | 56.7   | 58.1   | 56.7   |
| 87.5° | 9.1    | 19.0   | 22.7   | 22.6   | 20.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)