

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: P562328

Luminaire Tested: **SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562328  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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**

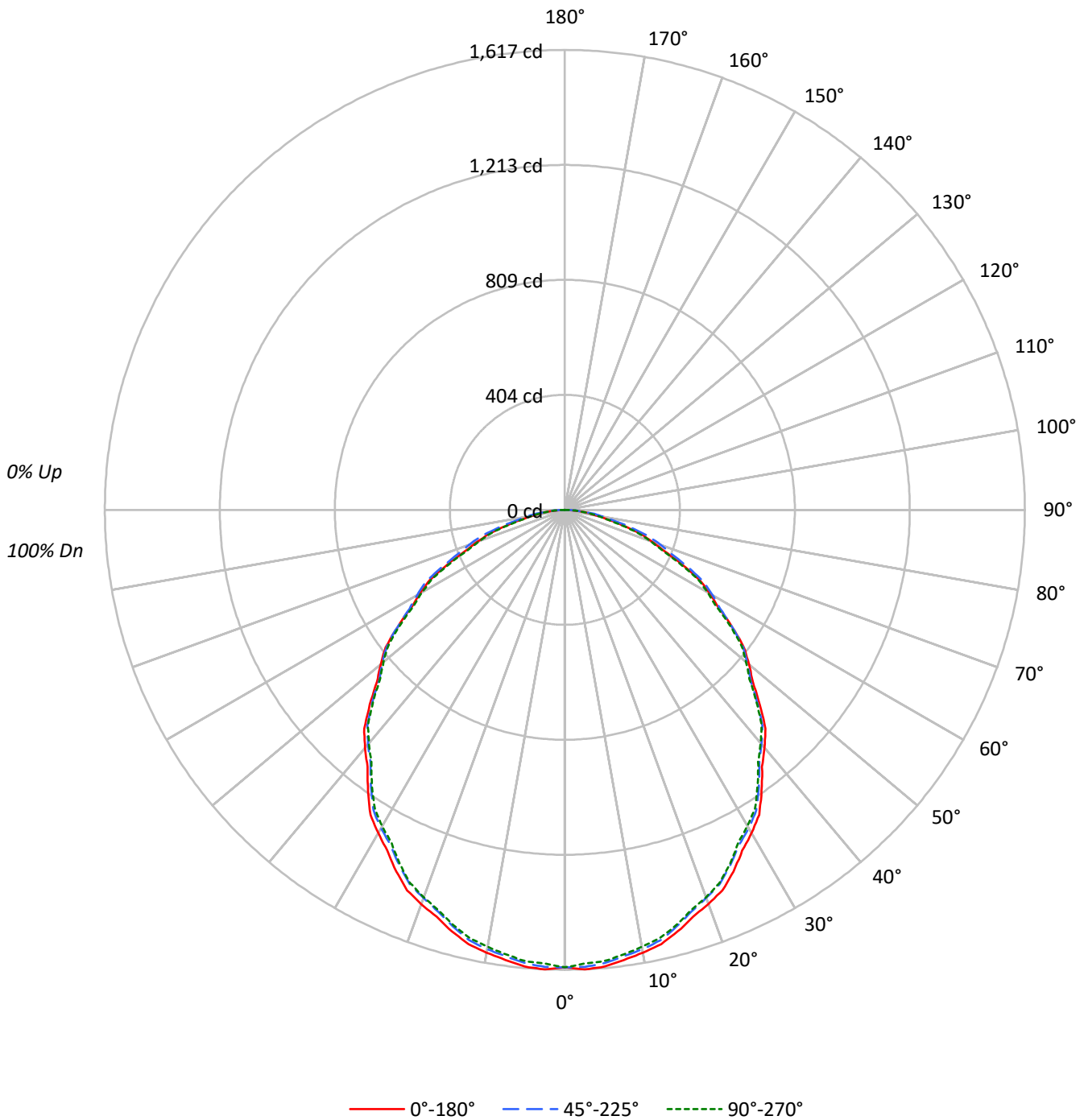
Lumens per Lamp: N/A  
Luminaire Lumens: 4091.6 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  |  | 94  | 92  | 89  |  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  |  | 83  | 79  | 75  |  | 80  | 76  | 73  | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  |  | 74  | 68  | 64  |  | 71  | 66  | 63  | 60  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  |  | 66  | 60  | 55  |  | 64  | 58  | 54  | 52  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  |  | 59  | 53  | 48  |  | 57  | 52  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  |  | 54  | 47  | 42  |  | 52  | 46  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  |  | 49  | 42  | 37  |  | 48  | 42  | 37  | 35  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  |  | 45  | 38  | 34  |  | 44  | 38  | 33  | 31  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 35  | 31  |  | 42  | 35  | 30  |  | 41  | 35  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 33  | 28  |  | 39  | 32  | 28  |  | 38  | 32  | 28  | 26  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14838 | 14838 | 14838 |
| 5°  | 14933 | 14816 | 14750 |
| 10° | 14814 | 14695 | 14615 |
| 15° | 14657 | 14495 | 14440 |
| 20° | 14482 | 14259 | 14232 |
| 25° | 14279 | 14020 | 13977 |
| 30° | 13977 | 13766 | 13676 |
| 35° | 13581 | 13390 | 13310 |
| 40° | 13157 | 12952 | 12901 |
| 45° | 12645 | 12479 | 12423 |
| 50° | 12121 | 12020 | 11938 |
| 55° | 11556 | 11556 | 11372 |
| 60° | 10850 | 11059 | 10667 |
| 65° | 9929  | 10424 | 9682  |
| 70° | 8754  | 9593  | 8524  |
| 75° | 7475  | 8587  | 7272  |
| 80° | 5797  | 7226  | 5871  |
| 85° | 3747  | 5547  | 4954  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 151.4  | 3.7       |
| 10°-20°   | 427.5  | 10.4      |
| 20°-30°   | 634.2  | 15.5      |
| 30°-40°   | 742.1  | 18.1      |
| 40°-50°   | 738.7  | 18.1      |
| 50°-60°   | 637.9  | 15.6      |
| 60°-70°   | 459.2  | 11.2      |
| 70°-80°   | 240.8  | 5.9       |
| 80°-90°   | 59.7   | 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°    | 1213.2 | 29.7      |
| 0°-40°    | 1955.2 | 47.8      |
| 0°-60°    | 3331.9 | 81.4      |
| 0°-90°    | 4091.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4091.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1608 | 1608  | 1608 | 1608  | 1608 |      |
| 5°  | 1612 | 1594  | 1600 | 1595  | 1593 | 153  |
| 15° | 1534 | 1515  | 1518 | 1515  | 1512 | 433  |
| 25° | 1403 | 1379  | 1377 | 1369  | 1373 | 645  |
| 35° | 1206 | 1189  | 1189 | 1178  | 1182 | 754  |
| 45° | 969  | 961   | 956  | 954   | 952  | 748  |
| 55° | 718  | 717   | 718  | 708   | 707  | 641  |
| 65° | 455  | 469   | 478  | 459   | 444  | 451  |
| 75° | 210  | 229   | 241  | 225   | 204  | 225  |
| 85° | 35   | 46    | 52   | 50    | 47   | 48   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1608.2 | 1608.2 | 1608.2 | 1608.2 | 1608.2 |
| 2.5°  | 1617.2 | 1603.9 | 1608.2 | 1604.6 | 1596.8 |
| 5°    | 1612.4 | 1594.4 | 1599.7 | 1595.3 | 1592.6 |
| 7.5°  | 1596.0 | 1579.4 | 1583.2 | 1578.7 | 1577.0 |
| 10°   | 1581.2 | 1564.6 | 1568.5 | 1562.8 | 1560.0 |
| 12.5° | 1564.2 | 1546.5 | 1550.4 | 1544.6 | 1543.0 |
| 15°   | 1534.5 | 1515.1 | 1517.5 | 1514.6 | 1511.8 |
| 17.5° | 1499.9 | 1480.2 | 1480.6 | 1476.1 | 1475.5 |
| 20°   | 1475.0 | 1454.2 | 1452.3 | 1446.7 | 1449.5 |
| 22.5° | 1447.8 | 1425.9 | 1424.0 | 1416.1 | 1420.0 |
| 25°   | 1402.7 | 1379.2 | 1377.2 | 1368.8 | 1373.0 |
| 27.5° | 1350.6 | 1327.3 | 1327.3 | 1315.5 | 1320.0 |
| 30°   | 1312.0 | 1289.9 | 1292.2 | 1278.2 | 1283.7 |
| 32.5° | 1271.2 | 1251.3 | 1252.5 | 1238.5 | 1244.0 |
| 35°   | 1205.8 | 1189.1 | 1188.8 | 1177.5 | 1181.7 |
| 37.5° | 1138.9 | 1124.2 | 1121.9 | 1115.4 | 1116.5 |
| 40°   | 1092.4 | 1079.9 | 1075.4 | 1071.2 | 1071.2 |
| 42.5° | 1043.7 | 1032.3 | 1027.8 | 1024.7 | 1023.6 |
| 45°   | 969.1  | 960.8  | 956.4  | 953.5  | 952.1  |
| 47.5° | 895.5  | 887.7  | 883.9  | 881.8  | 880.5  |
| 50°   | 844.5  | 838.9  | 837.4  | 833.1  | 831.7  |
| 52.5° | 793.5  | 790.1  | 788.6  | 783.2  | 781.8  |
| 55°   | 718.4  | 717.0  | 718.4  | 708.4  | 707.0  |
| 57.5° | 640.1  | 642.4  | 646.9  | 633.6  | 630.2  |
| 60°   | 588.0  | 593.5  | 599.3  | 583.6  | 578.1  |
| 62.5° | 534.7  | 543.6  | 551.7  | 533.7  | 525.9  |
| 65°   | 454.8  | 468.7  | 477.5  | 458.7  | 443.5  |
| 67.5° | 377.7  | 394.9  | 405.5  | 385.3  | 368.1  |
| 70°   | 324.5  | 343.9  | 355.6  | 335.4  | 316.0  |
| 72.5° | 278.0  | 299.6  | 309.2  | 290.0  | 270.6  |
| 75°   | 209.7  | 229.1  | 240.9  | 224.8  | 204.0  |
| 77.5° | 148.8  | 167.1  | 176.8  | 162.8  | 145.7  |
| 80°   | 109.1  | 128.5  | 136.0  | 124.4  | 110.5  |
| 82.5° | 77.4   | 93.4   | 98.6   | 91.6   | 82.2   |
| 85°   | 35.4   | 46.5   | 52.4   | 49.5   | 46.8   |
| 87.5° | 9.1    | 16.8   | 21.5   | 21.6   | 22.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)