

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: P564885

Luminaire Tested: **SQ4-PW1-0U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564885  
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-125D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

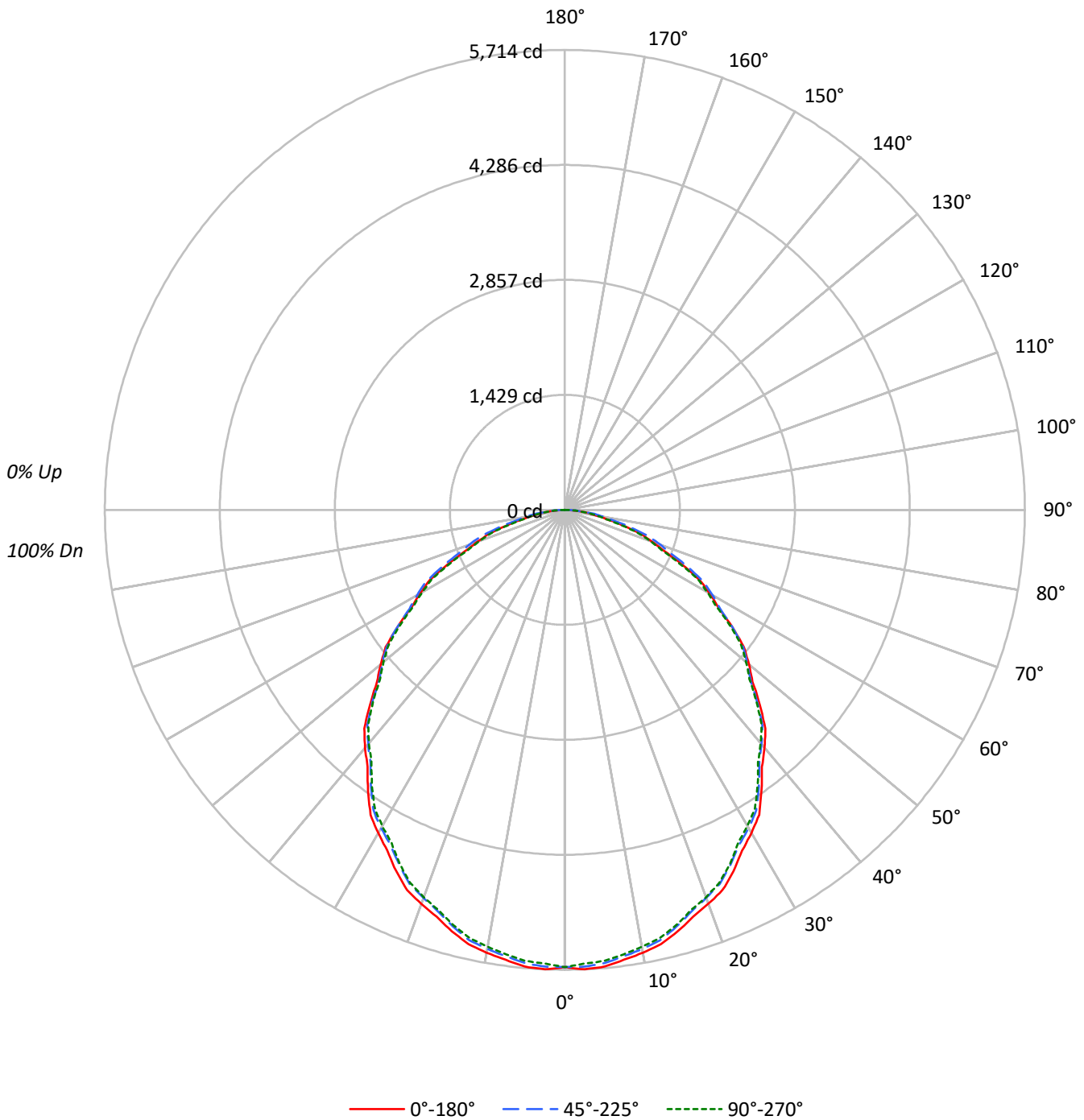
Lumens per Lamp: N/A  
Luminaire Lumens: 14455.3 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 140.8  
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 | 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°  | 17473 | 17473 | 17473 |
| 5°  | 17586 | 17447 | 17370 |
| 10° | 17445 | 17305 | 17211 |
| 15° | 17261 | 17069 | 17005 |
| 20° | 17054 | 16792 | 16760 |
| 25° | 16816 | 16511 | 16460 |
| 30° | 16461 | 16212 | 16105 |
| 35° | 15993 | 15768 | 15674 |
| 40° | 15494 | 15253 | 15193 |
| 45° | 14891 | 14696 | 14631 |
| 50° | 14274 | 14154 | 14059 |
| 55° | 13608 | 13608 | 13393 |
| 60° | 12778 | 13024 | 12562 |
| 65° | 11693 | 12276 | 11402 |
| 70° | 10307 | 11297 | 10038 |
| 75° | 8803  | 10112 | 8565  |
| 80° | 6826  | 8512  | 6914  |
| 85° | 4414  | 6535  | 5829  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 535.0   | 3.7       |
| 10°-20°   | 1510.5  | 10.4      |
| 20°-30°   | 2240.5  | 15.5      |
| 30°-40°   | 2621.6  | 18.1      |
| 40°-50°   | 2609.9  | 18.1      |
| 50°-60°   | 2253.8  | 15.6      |
| 60°-70°   | 1622.3  | 11.2      |
| 70°-80°   | 850.7   | 5.9       |
| 80°-90°   | 210.9   | 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°    | 4286.0  | 29.6      |
| 0°-40°    | 6907.6  | 47.8      |
| 0°-60°    | 11771.3 | 81.4      |
| 0°-90°    | 14455.3 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 14455.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5682 | 5682  | 5682 | 5682  | 5682 |      |
| 5°  | 5696 | 5633  | 5652 | 5636  | 5626 | 540  |
| 15° | 5421 | 5353  | 5361 | 5351  | 5341 | 1528 |
| 25° | 4956 | 4872  | 4866 | 4836  | 4851 | 2279 |
| 35° | 4260 | 4201  | 4200 | 4160  | 4175 | 2663 |
| 45° | 3424 | 3395  | 3379 | 3369  | 3364 | 2642 |
| 55° | 2538 | 2533  | 2538 | 2503  | 2498 | 2264 |
| 65° | 1607 | 1656  | 1687 | 1621  | 1567 | 1592 |
| 75° | 741  | 809   | 851  | 794   | 721  | 794  |
| 85° | 125  | 164   | 185  | 175   | 165  | 169  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5681.5 | 5681.5 | 5681.5 | 5681.5 | 5681.5 |
| 2.5°  | 5713.5 | 5666.6 | 5681.5 | 5668.9 | 5641.5 |
| 5°    | 5696.5 | 5632.9 | 5651.5 | 5636.2 | 5626.4 |
| 7.5°  | 5638.5 | 5579.7 | 5593.4 | 5577.3 | 5571.4 |
| 10°   | 5586.4 | 5527.7 | 5541.4 | 5521.1 | 5511.3 |
| 12.5° | 5526.3 | 5463.7 | 5477.3 | 5457.1 | 5451.2 |
| 15°   | 5421.2 | 5352.7 | 5361.1 | 5350.9 | 5341.1 |
| 17.5° | 5299.1 | 5229.6 | 5231.0 | 5214.9 | 5213.0 |
| 20°   | 5211.0 | 5137.6 | 5130.9 | 5111.1 | 5120.9 |
| 22.5° | 5114.9 | 5037.5 | 5030.8 | 5003.0 | 5016.8 |
| 25°   | 4955.7 | 4872.5 | 4865.6 | 4835.9 | 4850.6 |
| 27.5° | 4771.5 | 4689.2 | 4689.4 | 4647.7 | 4663.3 |
| 30°   | 4635.3 | 4557.0 | 4565.2 | 4515.6 | 4535.2 |
| 32.5° | 4491.1 | 4420.7 | 4425.1 | 4375.5 | 4395.0 |
| 35°   | 4259.9 | 4201.1 | 4199.8 | 4160.1 | 4174.8 |
| 37.5° | 4023.6 | 3971.7 | 3963.5 | 3940.6 | 3944.5 |
| 40°   | 3859.4 | 3815.4 | 3799.4 | 3784.3 | 3784.3 |
| 42.5° | 3687.2 | 3647.1 | 3631.2 | 3620.1 | 3616.1 |
| 45°   | 3423.9 | 3394.6 | 3378.9 | 3368.8 | 3363.9 |
| 47.5° | 3163.6 | 3136.2 | 3122.6 | 3115.5 | 3110.6 |
| 50°   | 2983.4 | 2963.8 | 2958.4 | 2943.3 | 2938.4 |
| 52.5° | 2803.2 | 2791.5 | 2786.2 | 2767.1 | 2762.2 |
| 55°   | 2537.9 | 2533.0 | 2537.9 | 2502.8 | 2497.9 |
| 57.5° | 2261.6 | 2269.4 | 2285.6 | 2238.3 | 2226.6 |
| 60°   | 2077.4 | 2097.0 | 2117.4 | 2061.9 | 2042.3 |
| 62.5° | 1889.2 | 1920.5 | 1949.2 | 1885.5 | 1858.1 |
| 65°   | 1606.8 | 1655.8 | 1686.9 | 1620.6 | 1566.8 |
| 67.5° | 1334.5 | 1395.2 | 1432.6 | 1361.2 | 1300.5 |
| 70°   | 1146.3 | 1214.8 | 1256.4 | 1184.8 | 1116.3 |
| 72.5° | 982.1  | 1058.5 | 1092.3 | 1024.6 | 956.1  |
| 75°   | 740.8  | 809.4  | 851.0  | 794.2  | 720.8  |
| 77.5° | 525.6  | 590.2  | 624.7  | 575.3  | 514.6  |
| 80°   | 385.4  | 454.0  | 480.6  | 439.4  | 390.4  |
| 82.5° | 273.3  | 330.1  | 348.4  | 323.6  | 290.3  |
| 85°   | 125.1  | 164.3  | 185.2  | 175.0  | 165.2  |
| 87.5° | 32.0   | 59.4   | 76.1   | 76.2   | 80.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)