

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: P562578

Luminaire Tested: **SQ4-PC3-025U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562578  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-125D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

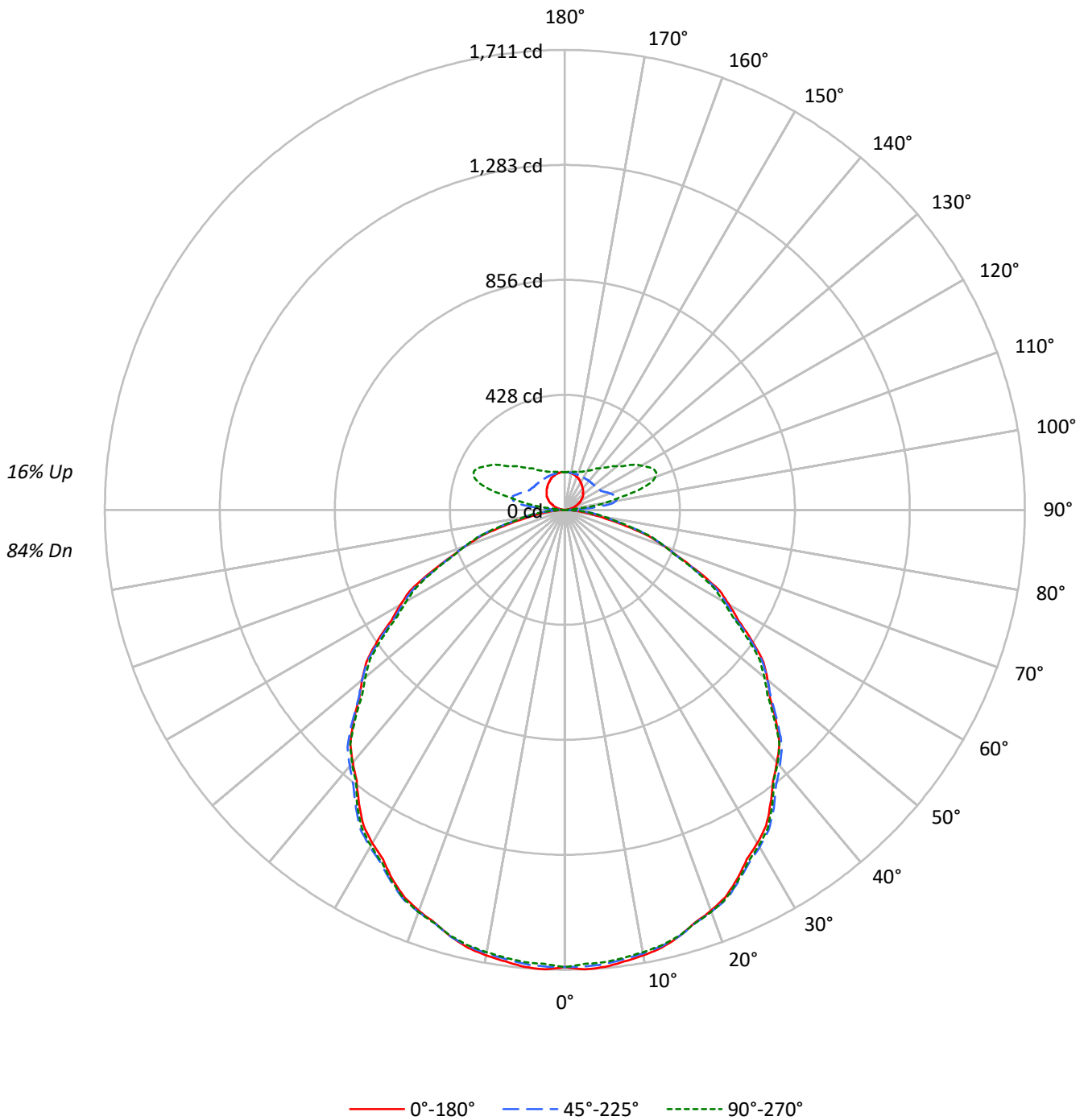
Lumens per Lamp: N/A  
Luminaire Lumens: 5554.7 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 49.5  
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   | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 102 | 102 | 102 | 94 | 94 | 94 | 87 | 87 | 87 | 84 |    |    |    |   |
| 1   | 105 | 101 | 97  | 93  | 101 | 97  | 93  | 90  | 90  | 87  | 84  | 83 | 81 | 79 | 77 | 75 | 74 | 71 |    |    |    |   |
| 2   | 96  | 88  | 82  | 76  | 92  | 85  | 79  | 74  | 79  | 74  | 70  | 73 | 69 | 66 | 68 | 65 | 62 | 59 |    |    |    |   |
| 3   | 88  | 78  | 70  | 64  | 84  | 75  | 68  | 62  | 70  | 64  | 59  | 65 | 60 | 56 | 60 | 56 | 53 | 50 |    |    |    |   |
| 4   | 80  | 69  | 60  | 54  | 77  | 66  | 59  | 53  | 62  | 55  | 50  | 58 | 52 | 48 | 54 | 49 | 46 | 43 |    |    |    |   |
| 5   | 74  | 61  | 53  | 46  | 71  | 59  | 51  | 45  | 55  | 49  | 43  | 52 | 46 | 42 | 48 | 44 | 40 | 37 |    |    |    |   |
| 6   | 68  | 55  | 47  | 40  | 65  | 53  | 45  | 40  | 50  | 43  | 38  | 47 | 41 | 36 | 44 | 39 | 35 | 33 |    |    |    |   |
| 7   | 63  | 50  | 42  | 36  | 60  | 48  | 41  | 35  | 45  | 39  | 34  | 43 | 37 | 32 | 40 | 35 | 31 | 29 |    |    |    |   |
| 8   | 59  | 46  | 37  | 32  | 56  | 44  | 37  | 31  | 42  | 35  | 30  | 39 | 33 | 29 | 37 | 32 | 28 | 26 |    |    |    |   |
| 9   | 55  | 42  | 34  | 28  | 53  | 41  | 33  | 28  | 38  | 32  | 27  | 36 | 30 | 26 | 34 | 29 | 25 | 23 |    |    |    |   |
| 10  | 51  | 38  | 31  | 26  | 49  | 37  | 30  | 25  | 35  | 29  | 24  | 33 | 28 | 24 | 31 | 26 | 23 | 21 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15694 | 15694 | 15694 |
| 5°  | 15812 | 15709 | 15651 |
| 10° | 15773 | 15700 | 15655 |
| 15° | 15691 | 15691 | 15675 |
| 20° | 15588 | 15634 | 15634 |
| 25° | 15440 | 15552 | 15504 |
| 30° | 15252 | 15437 | 15370 |
| 35° | 15025 | 15256 | 15149 |
| 40° | 14777 | 14985 | 14833 |
| 45° | 14508 | 14611 | 14385 |
| 50° | 14128 | 14128 | 13903 |
| 55° | 13681 | 13504 | 13301 |
| 60° | 13020 | 12758 | 12555 |
| 65° | 12033 | 11793 | 11691 |
| 70° | 10537 | 10620 | 10580 |
| 75° | 8477  | 9375  | 9432  |
| 80° | 6025  | 7948  | 8033  |
| 85° | 3663  | 6669  | 6669  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 161.0  | 2.9       |
| 10°-20°   | 462.0  | 8.3       |
| 20°-30°   | 699.6  | 12.6      |
| 30°-40°   | 838.7  | 15.1      |
| 40°-50°   | 855.2  | 15.4      |
| 50°-60°   | 746.5  | 13.4      |
| 60°-70°   | 534.4  | 9.6       |
| 70°-80°   | 275.3  | 5.0       |
| 80°-90°   | 70.4   | 1.3       |
| 90°-100°  | 68.6   | 1.2       |
| 100°-110° | 180.2  | 3.2       |
| 110°-120° | 186.9  | 3.4       |
| 120°-130° | 149.9  | 2.7       |
| 130°-140° | 117.6  | 2.1       |
| 140°-150° | 90.3   | 1.6       |
| 150°-160° | 65.0   | 1.2       |
| 160°-170° | 39.8   | 0.7       |
| 170°-180° | 13.4   | 0.2       |
| 0°-30°    | 1322.5 | 23.8      |
| 0°-40°    | 2161.2 | 38.9      |
| 0°-60°    | 3762.9 | 67.7      |
| 0°-90°    | 4643.0 | 83.6      |
| 90°-120°  | 435.7  | 7.8       |
| 90°-150°  | 793.5  | 14.3      |
| 90°-180°  | 912.0  | 16.4      |
| 0°-180°   | 5554.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1701 | 1701  | 1701 | 1701  | 1701 |      |
| 5°   | 1707 | 1690  | 1696 | 1692  | 1690 | 162  |
| 15°  | 1643 | 1629  | 1643 | 1643  | 1641 | 463  |
| 25°  | 1517 | 1506  | 1528 | 1523  | 1523 | 698  |
| 35°  | 1334 | 1331  | 1354 | 1345  | 1345 | 834  |
| 45°  | 1112 | 1109  | 1120 | 1106  | 1102 | 856  |
| 55°  | 850  | 840   | 840  | 827   | 827  | 758  |
| 65°  | 551  | 539   | 540  | 536   | 536  | 545  |
| 75°  | 238  | 249   | 263  | 265   | 265  | 257  |
| 85°  | 35   | 53    | 63   | 64    | 63   | 47   |
| 90°  | 1    | 3     | 7    | 4     | 4    | 2    |
| 95°  | 9    | 36    | 118  | 61    | 42   | 10   |
| 105° | 32   | 49    | 199  | 302   | 282  | 34   |
| 115° | 58   | 70    | 160  | 318   | 363  | 57   |
| 125° | 80   | 90    | 145  | 245   | 289  | 71   |
| 135° | 96   | 105   | 141  | 198   | 224  | 74   |
| 145° | 111  | 118   | 139  | 169   | 182  | 69   |
| 155° | 125  | 129   | 139  | 152   | 157  | 58   |
| 165° | 135  | 137   | 139  | 144   | 146  | 38   |
| 175° | 141  | 141   | 140  | 142   | 142  | 13   |
| 180° | 141  | 141   | 141  | 141   | 141  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1701.0 | 1701.0 | 1701.0 | 1701.0 | 1701.0 |
| 2.5°   | 1711.0 | 1696.3 | 1701.0 | 1697.0 | 1690.9 |
| 5°     | 1707.3 | 1690.3 | 1696.2 | 1691.5 | 1689.9 |
| 7.5°   | 1695.0 | 1678.0 | 1685.8 | 1682.7 | 1681.1 |
| 10°    | 1683.6 | 1666.7 | 1675.8 | 1672.6 | 1671.0 |
| 12.5°  | 1668.5 | 1652.8 | 1663.2 | 1660.0 | 1659.7 |
| 15°    | 1642.7 | 1628.8 | 1642.7 | 1642.6 | 1641.1 |
| 17.5°  | 1610.2 | 1597.6 | 1612.4 | 1613.4 | 1612.4 |
| 20°    | 1587.6 | 1573.7 | 1592.3 | 1590.7 | 1592.3 |
| 22.5°  | 1559.8 | 1548.4 | 1568.3 | 1564.3 | 1565.8 |
| 25°    | 1516.7 | 1505.9 | 1527.7 | 1523.0 | 1523.0 |
| 27.5°  | 1465.7 | 1458.0 | 1481.7 | 1476.7 | 1476.7 |
| 30°    | 1431.6 | 1423.9 | 1449.0 | 1442.7 | 1442.7 |
| 32.5°  | 1393.8 | 1388.6 | 1412.4 | 1404.9 | 1404.9 |
| 35°    | 1334.0 | 1330.9 | 1354.5 | 1345.0 | 1345.0 |
| 37.5°  | 1272.3 | 1269.5 | 1290.8 | 1279.4 | 1275.7 |
| 40°    | 1226.9 | 1225.4 | 1244.2 | 1231.6 | 1231.6 |
| 42.5°  | 1181.5 | 1180.0 | 1196.3 | 1181.2 | 1181.2 |
| 45°    | 1111.9 | 1108.8 | 1119.8 | 1105.6 | 1102.5 |
| 47.5°  | 1036.0 | 1032.9 | 1039.8 | 1024.3 | 1022.8 |
| 50°    | 984.3  | 981.3  | 984.3  | 970.1  | 968.6  |
| 52.5°  | 931.4  | 925.9  | 926.4  | 912.2  | 911.9  |
| 55°    | 850.5  | 839.7  | 839.5  | 826.9  | 826.9  |
| 57.5°  | 764.8  | 750.6  | 751.9  | 741.1  | 739.6  |
| 60°    | 705.6  | 690.2  | 691.4  | 681.9  | 680.4  |
| 62.5°  | 647.6  | 629.8  | 633.4  | 622.7  | 622.4  |
| 65°    | 551.2  | 538.9  | 540.2  | 535.5  | 535.5  |
| 67.5°  | 458.6  | 447.2  | 455.5  | 451.7  | 451.4  |
| 70°    | 390.6  | 382.9  | 393.7  | 393.7  | 392.2  |
| 72.5°  | 327.6  | 327.3  | 340.8  | 340.8  | 341.8  |
| 75°    | 237.8  | 248.6  | 263.0  | 264.6  | 264.6  |
| 77.5°  | 158.8  | 177.9  | 193.7  | 194.3  | 194.0  |
| 80°    | 113.4  | 135.0  | 149.6  | 152.7  | 151.2  |
| 82.5°  | 76.9   | 99.6   | 111.8  | 114.9  | 113.4  |
| 85°    | 34.6   | 53.1   | 63.0   | 64.5   | 63.0   |
| 87.5°  | 10.3   | 21.7   | 26.6   | 25.9   | 23.4   |
| 90°    | 0.9    | 2.7    | 7.2    | 3.6    | 3.6    |
| 92.5°  | 3.8    | 18.2   | 40.4   | 17.9   | 11.5   |
| 95°    | 9.0    | 35.5   | 118.1  | 60.9   | 41.5   |
| 97.5°  | 15.7   | 39.0   | 176.7  | 140.5  | 103.5  |
| 100°   | 20.7   | 41.9   | 194.8  | 197.4  | 153.3  |
| 102.5° | 25.1   | 44.8   | 199.8  | 245.8  | 208.1  |
| 105°   | 32.5   | 49.2   | 199.3  | 302.5  | 282.2  |
| 107.5° | 40.0   | 55.6   | 187.9  | 331.9  | 336.9  |
| 110°   | 45.1   | 59.2   | 178.5  | 339.5  | 360.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 50.1  | 63.5  | 169.9 | 334.7 | 367.2 |
| 115°   | 57.7  | 70.1  | 159.6 | 318.4 | 363.4 |
| 117.5° | 65.1  | 76.4  | 152.6 | 295.8 | 345.7 |
| 120°   | 69.4  | 80.0  | 149.7 | 280.6 | 329.1 |
| 122.5° | 73.8  | 84.3  | 147.5 | 265.5 | 313.2 |
| 125°   | 80.3  | 89.9  | 145.2 | 245.4 | 289.4 |
| 127.5° | 85.5  | 95.4  | 143.2 | 229.2 | 266.4 |
| 130°   | 88.4  | 98.9  | 142.5 | 219.0 | 253.4 |
| 132.5° | 91.3  | 101.8 | 141.7 | 210.3 | 241.1 |
| 135°   | 95.6  | 105.3 | 140.7 | 198.1 | 224.5 |
| 137.5° | 100.1 | 109.6 | 140.5 | 188.9 | 210.6 |
| 140°   | 103.7 | 112.5 | 139.8 | 181.7 | 202.0 |
| 142.5° | 106.6 | 114.7 | 139.8 | 176.6 | 194.0 |
| 145°   | 110.9 | 118.0 | 138.9 | 168.9 | 182.1 |
| 147.5° | 115.2 | 122.1 | 138.9 | 162.6 | 173.5 |
| 150°   | 118.1 | 124.3 | 138.9 | 158.9 | 167.7 |
| 152.5° | 121.0 | 125.8 | 138.9 | 156.0 | 162.7 |
| 155°   | 125.3 | 128.9 | 138.9 | 152.5 | 156.9 |
| 157.5° | 128.6 | 131.9 | 138.9 | 149.4 | 152.6 |
| 160°   | 130.7 | 133.4 | 138.9 | 147.9 | 149.7 |
| 162.5° | 132.9 | 134.8 | 138.9 | 146.5 | 148.2 |
| 165°   | 135.3 | 137.0 | 138.9 | 144.3 | 146.1 |
| 167.5° | 137.4 | 138.3 | 139.8 | 143.4 | 144.1 |
| 170°   | 138.9 | 139.7 | 139.8 | 143.4 | 143.4 |
| 172.5° | 139.6 | 139.8 | 139.8 | 142.6 | 141.9 |
| 175°   | 140.7 | 140.7 | 139.8 | 141.6 | 141.6 |
| 177.5° | 140.7 | 140.7 | 139.9 | 141.4 | 140.7 |
| 180°   | 140.7 | 140.7 | 140.7 | 140.7 | 140.7 |

(END OF REPORT)