

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: P518996

Luminaire Tested: **SQ4-WB-025U-075D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518996  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-025U-075D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

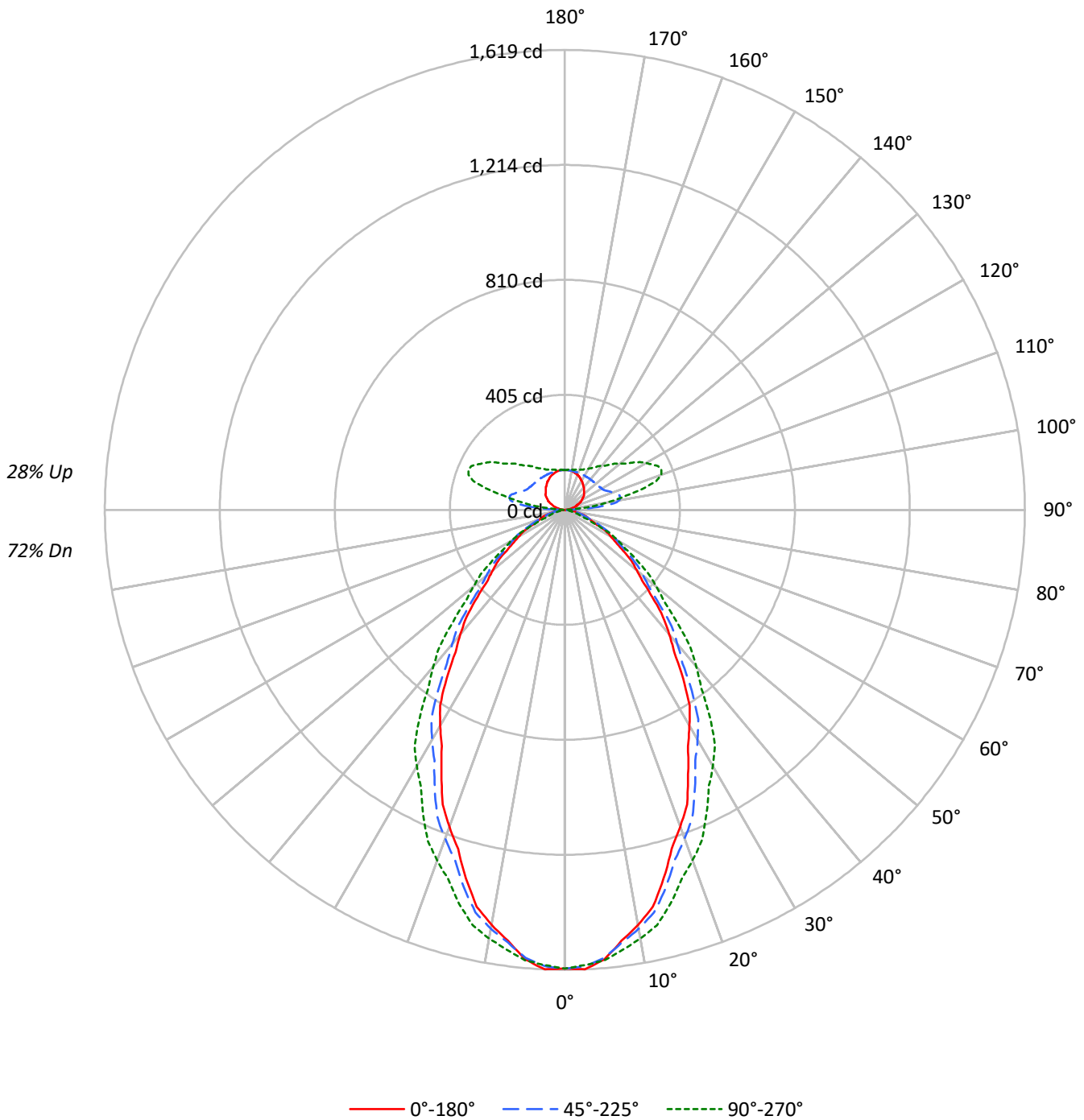
Lumens per Lamp: N/A  
Luminaire Lumens: 3266.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 29.9  
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   | 112 | 112 | 112 | 112 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 86 | 86 | 86 | 76 | 76 | 76 | 76 | 76 | 76 | 72 |   |
| 1   | 104 | 101 | 97  | 94  | 99  | 96  | 93  | 90  | 86 | 84 | 82 | 78 | 76 | 75 | 70 | 69 | 68 | 68 | 68 | 68 | 64 |   |
| 2   | 96  | 90  | 84  | 80  | 91  | 86  | 81  | 77  | 78 | 74 | 71 | 70 | 68 | 65 | 64 | 62 | 60 | 60 | 60 | 60 | 56 |   |
| 3   | 89  | 81  | 74  | 69  | 85  | 77  | 71  | 66  | 70 | 66 | 62 | 64 | 60 | 57 | 58 | 55 | 53 | 53 | 53 | 53 | 50 |   |
| 4   | 83  | 73  | 65  | 60  | 78  | 70  | 63  | 58  | 64 | 58 | 54 | 58 | 54 | 51 | 53 | 50 | 47 | 47 | 47 | 47 | 44 |   |
| 5   | 77  | 66  | 58  | 53  | 73  | 63  | 56  | 51  | 58 | 52 | 48 | 53 | 49 | 45 | 49 | 45 | 42 | 42 | 42 | 42 | 40 |   |
| 6   | 71  | 60  | 52  | 47  | 68  | 58  | 51  | 46  | 53 | 47 | 43 | 49 | 44 | 41 | 45 | 41 | 38 | 38 | 38 | 38 | 36 |   |
| 7   | 67  | 55  | 47  | 42  | 63  | 53  | 46  | 41  | 49 | 43 | 39 | 45 | 40 | 37 | 42 | 38 | 35 | 35 | 35 | 35 | 33 |   |
| 8   | 62  | 51  | 43  | 38  | 59  | 49  | 42  | 37  | 45 | 40 | 35 | 42 | 37 | 34 | 39 | 35 | 32 | 32 | 32 | 32 | 30 |   |
| 9   | 58  | 47  | 40  | 35  | 56  | 45  | 39  | 34  | 42 | 36 | 32 | 39 | 34 | 31 | 36 | 32 | 29 | 29 | 29 | 29 | 27 |   |
| 10  | 55  | 43  | 36  | 32  | 52  | 42  | 35  | 31  | 39 | 34 | 30 | 36 | 32 | 28 | 34 | 30 | 27 | 27 | 27 | 27 | 25 |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14901 | 14901 | 14901 |
| 5°  | 14716 | 14663 | 14748 |
| 10° | 13903 | 14029 | 14354 |
| 15° | 12835 | 13133 | 13721 |
| 20° | 11655 | 12093 | 12893 |
| 25° | 10454 | 11024 | 12012 |
| 30° | 9347  | 9959  | 11099 |
| 35° | 8174  | 8764  | 10017 |
| 40° | 6880  | 7426  | 8672  |
| 45° | 5677  | 6168  | 7240  |
| 50° | 4741  | 5167  | 6033  |
| 55° | 4025  | 4435  | 4982  |
| 60° | 3440  | 3845  | 3975  |
| 65° | 2738  | 3233  | 2567  |
| 70° | 2428  | 2522  | 1567  |
| 75° | 2249  | 2046  | 959   |
| 80° | 2072  | 1881  | 829   |
| 85° | 1874  | 1725  | 677   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 148.1  | 4.5       |
| 10°-20°   | 385.3  | 11.8      |
| 20°-30°   | 499.1  | 15.3      |
| 30°-40°   | 488.8  | 15.0      |
| 40°-50°   | 374.1  | 11.5      |
| 50°-60°   | 249.3  | 7.6       |
| 60°-70°   | 136.0  | 4.2       |
| 70°-80°   | 56.7   | 1.7       |
| 80°-90°   | 16.8   | 0.5       |
| 90°-100°  | 68.6   | 2.1       |
| 100°-110° | 180.2  | 5.5       |
| 110°-120° | 186.9  | 5.7       |
| 120°-130° | 149.9  | 4.6       |
| 130°-140° | 117.6  | 3.6       |
| 140°-150° | 90.3   | 2.8       |
| 150°-160° | 65.0   | 2.0       |
| 160°-170° | 39.8   | 1.2       |
| 170°-180° | 13.4   | 0.4       |
| 0°-30°    | 1032.6 | 31.6      |
| 0°-40°    | 1521.3 | 46.6      |
| 0°-60°    | 2144.8 | 65.7      |
| 0°-90°    | 2354.3 | 72.1      |
| 90°-120°  | 435.7  | 13.3      |
| 90°-150°  | 793.5  | 24.3      |
| 90°-180°  | 912.0  | 27.9      |
| 0°-180°   | 3266.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1615 | 1615  | 1615 | 1615  | 1615 |      |
| 5°   | 1589 | 1573  | 1583 | 1587  | 1592 | 148  |
| 15°  | 1344 | 1339  | 1375 | 1412  | 1436 | 375  |
| 25°  | 1027 | 1030  | 1083 | 1130  | 1180 | 472  |
| 35°  | 726  | 729   | 778  | 830   | 889  | 451  |
| 45°  | 435  | 444   | 473  | 508   | 555  | 339  |
| 55°  | 250  | 261   | 276  | 286   | 310  | 227  |
| 65°  | 125  | 136   | 148  | 129   | 118  | 130  |
| 75°  | 63   | 63    | 57   | 39    | 27   | 67   |
| 85°  | 18   | 18    | 16   | 10    | 6    | 19   |
| 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°     | 1615.1 | 1615.1 | 1615.1 | 1615.1 | 1615.1 |
| 2.5°   | 1619.1 | 1604.7 | 1608.3 | 1608.2 | 1603.8 |
| 5°     | 1588.9 | 1572.9 | 1583.2 | 1586.9 | 1592.4 |
| 7.5°   | 1529.9 | 1517.9 | 1536.6 | 1550.4 | 1561.7 |
| 10°    | 1484.0 | 1473.6 | 1497.5 | 1517.6 | 1532.2 |
| 12.5°  | 1430.7 | 1422.0 | 1451.5 | 1478.6 | 1497.6 |
| 15°    | 1343.7 | 1338.8 | 1374.9 | 1412.3 | 1436.5 |
| 17.5°  | 1250.6 | 1248.2 | 1289.5 | 1333.2 | 1364.2 |
| 20°    | 1187.1 | 1186.4 | 1231.7 | 1277.2 | 1313.2 |
| 22.5°  | 1123.0 | 1124.5 | 1172.2 | 1219.5 | 1260.5 |
| 25°    | 1026.9 | 1029.7 | 1082.9 | 1130.1 | 1180.0 |
| 27.5°  | 938.0  | 939.3  | 994.3  | 1044.1 | 1097.3 |
| 30°    | 877.4  | 880.8  | 934.8  | 986.3  | 1041.8 |
| 32.5°  | 816.7  | 820.7  | 873.5  | 926.8  | 983.4  |
| 35°    | 725.7  | 729.2  | 778.1  | 830.5  | 889.4  |
| 37.5°  | 631.9  | 636.6  | 680.1  | 729.6  | 787.5  |
| 40°    | 571.2  | 578.1  | 616.6  | 663.2  | 720.0  |
| 42.5°  | 512.8  | 521.4  | 557.0  | 601.3  | 652.6  |
| 45°    | 435.1  | 443.5  | 472.7  | 508.5  | 554.9  |
| 47.5°  | 368.2  | 377.8  | 400.3  | 431.1  | 470.7  |
| 50°    | 330.3  | 339.3  | 360.0  | 382.8  | 420.3  |
| 52.5°  | 296.8  | 305.8  | 324.3  | 341.9  | 373.8  |
| 55°    | 250.2  | 260.6  | 275.7  | 286.1  | 309.7  |
| 57.5°  | 211.9  | 221.9  | 233.9  | 238.6  | 252.9  |
| 60°    | 186.4  | 197.5  | 208.4  | 207.8  | 215.4  |
| 62.5°  | 163.1  | 172.6  | 183.4  | 175.9  | 176.3  |
| 65°    | 125.4  | 135.8  | 148.1  | 129.4  | 117.6  |
| 67.5°  | 101.3  | 103.6  | 116.2  | 90.3   | 76.3   |
| 70°    | 90.0   | 90.0   | 93.5   | 69.9   | 58.1   |
| 72.5°  | 79.2   | 79.2   | 76.0   | 56.8   | 44.5   |
| 75°    | 63.1   | 63.1   | 57.4   | 39.4   | 26.9   |
| 77.5°  | 48.6   | 48.1   | 43.9   | 29.4   | 19.6   |
| 80°    | 39.0   | 39.0   | 35.4   | 23.2   | 15.6   |
| 82.5°  | 30.5   | 30.5   | 27.5   | 18.1   | 11.6   |
| 85°    | 17.7   | 17.7   | 16.3   | 10.5   | 6.4    |
| 87.5°  | 6.4    | 6.8    | 7.1    | 4.1    | 3.6    |
| 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)